	No.	District and return		Rainfall at Sudder Station in inches.	
BE	NGAI				
		Eastern Di	atricts.		
	18	Dacca	Sept. 13, '90	0-39	Weather—hot and cloudy at intervals. Harvesting of jute and aus paddy going on. Prospect of amus paddy continues good. Rivers falling slowly. Common rice selling at from 11 to 14 seers per rupee.
DACCA DIVE.	19	Furreedpur	,, 13, '90	0.29	Weather—seasonable. Flood has gone down, and state of crops hopeful. Outturn of aus about 8 annas and of jute about 10 annas. Price of rice stationary.
DAC	20	Backergunge			Report not received.
	21	Mymensingh	,, 13, '90	0.26	Weather—warm and cloudy with occasional showrs. Jute and amun plants somewhat damaged by high floods, particularly in the Tangail subdivision. Common rice sells at 13 seers 9 chittacks per rupee.
UVN.	22	Chittagong	,, 16, '90	3.64	Weather—seasonable. Twelve annas of aus cut. Amun transplanted over about eleven annas of land. Prospects fairly good. Prices steady.
DE DE	23	Noakholly			Report not received.
Сиптавоме Біти.	24	Tipperah	,, 13, '90	0.92	Sunshine and rain at intervals. Aus and jute are being cut. Flood-water falling steadily.
•	25	Chittagong Hill Tracts.			Report not received.
		Hill Tipperah	,, 12, '90	1.92	Weather—hot. Jute commenced to be cut. Amun and jum crops doing well. No change in prices.
BE	HAR.				
	26	Patna Barh Behar Dinapore	" 13, '90 … … …	0·16 Nil 1·10 Nil	Weather—very hot and sultry. Transplantation of paddy finished all over the district excepting in some places in the Behar sub-division. Reaping of bhadoi crops going on; outturn estimated on an average at 3 annas. Castor seed and kullhi are being sown. Prices of food-grains almost stationary.
	27	Gya Shahabad	,, 13, '90	1.49	Weather—hot and fair. Bhadoi harvest now over; outturn two annas only. Rain urgently wanted for paddy. Prices of food-grains rising daily. Weather—very hot. Sky clear. Rain now wanted for paddy, especially in
PATSA DITS.	29	Buxar Bhabuah Sasseram Durbhunga	;, 13, ⁷⁹⁰	Nil Nil Nil Nil	Sasseram and Bhabuah. Prices rising. Weather—hot and occasionally close. Harvesting of bhadoi in progress. Ketransplanting of rice going on in places inundated, where possible, Croppers.
PATEM	30	Mozufferpur Hajipur Sitamarhi	" 13, '90 …	0·22 Nil 0·08	elsewhere doing well. Prices remain stationary. Weather—extremely hot. Only one shower during the week. Bhadoi being reaped; an average outturn of 6 annas for the whole district may be expected. The last floods from the Bagmati have done no serious damage to the
	31	Sarun	,, 13, '90	Nil	rice crops in the Sitamarhi subdivision. Prospects of these crops are good everywhere, except in very low-lying localities. Weather—very hot and oppressive. In Sewan and Gopalgunge a little bhadoi is being harvested. Preparation of lands for rubbi beginning. Prices
	32	Chumparun Bettiah	" 13, '90 	Nil 0.49	about stationary. Weather—fine, but excessively hot. Harvesting of bhadoi rice and makai in progress; average outturn estimated at 5 annas. Aghani rice in good condition. With rain within the next fortnight or three weeks, a 16-anna
	38	Mongbyr Beguserai	" 13, '90 	Nil 0.55 Nil	crop is hoped for. Weather—very hot and sultry. Standing crops doing well; but rain urgently wanted for winter rice.
DIVR.	34	Jamui Bhagulpore Banka Mudhepura Soopool	" 13, "90 	0.00	Weather—hot with strong sun. Break in the rains favourable to bhadon harvest, which is now nearly over, and if timely rain falls later on, prospects of winter rice will be assured. Average outturn of bhadoi for the whole district estimated at 10 annas. A 16-anna winter rice crop may be fairly expected. Floods subsiding.
BHAGULFORE DIVE.	35	Purneah Kishengung Arrareah	, 13, '90 	10·77 2·44 4·94	Weather—fine and sunny. Ten inches of rain fell at Purneah on night of 9th but it was local. Prospects of crops continue favourable. Bhadoi harvest nearly completed.
BR	36	Maldah Chanchal Shibgunge Gajole	,, 13, '90 	2·31 2·84 0·52 3·20	Weather—hot and bright with occasional showers. Winter rice thriving well Jute is still being cut. Kalai sowings going on. Rivers have gone down Price of common rice continues unchanged.
	37	Sonthal Perghs Deoghur Jumtara Pakour Rajmehal	. "13, '90	1.98 0.47 0.44 0.39 2.41	Weather—hot and oppressive with local thunderstorms on the last two days Heavy rain at the Sudder and at Rajmehal, which has greatly benefited the rice crop. More rain is urgently required in other parts, and some damage to up-land rice has already been caused by the break in the rains and the hot sun. Janera harvest estimated at 10 annas in Jamtara.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects
OR	ISSA			
TN.	88	Cuttack Sept. 13, '9	0 1:17	Weather—hot. Slight rain during the week. Harvesting of satika beali rice going on. Prospects of early sarad rice not good for want of sufficient rain in most places in the Jajpur subdivision. Prospects elsewhere fair.
ORISSA DITE.	39	Pooree " 11, '9 Khoorda Banpur	1·00 7·40 4·64	Weather—seasonable. Puddling and weeding of sarad crop going on. Bealing or early rice is being harvested. Mandia coming into ear. Miscellaneous crops doing well. Common rice 21 to 23 seers per rupee.
Н	40 OTA	Balasore " 13, '90 NAGPORE.	0.33	Weather-very hot. Want of rain felt all over the district. Price of rice stationary.
	Sout	h-West Frontier Agency.		
DIVE.	41	Hazaribagh Sept. 13, '90	0.10	Weather—fine and unusually warm. Rain urgently wanted for rice crop all over the district. Bhadoi crops still being harvested with poor outturn. Rubbi sowings at a standstill for want of rain. Prices show a tendency to rise.
CHOTA MAGEORIA DIVE.	42	Lohardugga ,, 13, '90 Palamow (up to 8th Sept.) Singbhoom Sept. 13, '90	0 .27	Weather—hot and cloudy. Resping of goondli and gora paddy going on. Rain badly wanted for winter rice. Prices steady. Weather—unseasonable: dry and hot. Rain urgently wanted. With the exception of thanas Ghatsilla and Asanbani, where slight rain has fallen, there has been no rain in the district throughout the week. Two to four annas damage to rice crop reported from every part of the district except thana Monarpur, and if no rain falls within the next two or three days, the
• [44	Manbhoom ,, 13, '90 Govindpore	0·37 Nil	damage will be serious. Weather—very hot during week. More rain badly wanted. Winter crops suffering, but are now in a somewhat more healthy condition than they were three days ago: the recent rain has done some good. Prices rising: common rice 16 to 20 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT., The 16th September, 1890. P. Nolan, Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Benga

SION.									STATIC	ON OBS	SERVATION	NS.				No.
DIVI	The second second	# 21	ATR	PBRSSU	RB.	Wri	sp.				THMPERA	TURE.				
MRIBOROLOGICAL DIVISION.	District.	Representative station.	Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mesn wind ve- locity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily tem- perature of weak.	Variation from normal mean of week.	Mesn, 8 4.W.
	Pooree	Pooree Gopalpore	29°693 29°676	29°705 29°698	+.000	Calm N	165 171	94.7 91.2	7 & 8 Sep. 7th	79°6 77°8	6, 8 & 9 Sep. 7th .,	90'1	80°6 79°6	86'4 84'8	+1.0	83° 84°
84.		False Point	29.682	29.703	026	WNW	166	93.2	7th "	75.1	6 & 7 ,,	91'1	77.6	84'4	+1.8	857
ORISSA	Onttack	Cuttack	29.632	29.712	007	Calm	30	95'4	6 & 11 .,	76.8	eth	04'0	79.3	86:7	+2.9	841
- (Balasore	Balasore	29.655	1 29 713	010	Calm	50	94.4	6 & 7 .,	76.7	6th	91.2	79.0	85.3	+3.3	851
í	South-West Midnapore }	Saugor Island	29.691	29.717	009	Southerly	230	91.7	11 & 12 ,,	79.0	8th "	90.8	81.6	86*2	+2:8	841
	Midnapore	Midnapore	29:566	29'716	020	8	147	94.3	6 to 8 & 11th Sep.	77'1	6th ,,	98.7	79.0	86'4	+3'4	84
BENGAL	24-Pergunnahs} Howrah} Hooghly	Calcutta	29.689	29.710	016	Variable	38	92.2	6th "	77:2	6th ,,	90'4	78.4	84'4	+1'9	851
	Burdwan	Burdwan	29.618	29.717	-'017	sw	59	95'1	8th ,,	75'4	6th	94.0	80 5	87'3	+3.3	84"
WEST	Bankoora	Bankoora	29'385	29.082	025	Variable	76	96.1	6 & 7 ,	78.5	9th, 10th & 12th Sep.	94.3	79.4	86.9	+3.4	881
	Beerbhoom	Raneegunge	29.370	29.703	016	South-	39	96.2	6 & 7 ,,	78'3	12th ,,	93.3	79'3	86'3	+3.2	851
SOUTH-	West Burdwan)	Berhampore	29.637	29.704	-:030	easterly. S & SSW	99	92.7	6 to 8	79'8	6th	91.0	80.8	86.0	+2'5	
16	Nuddea	Krishnaghur	29.660	29.707	014	SSE	93	•	•	7	1	*		9	,	83.4
200	Jessore}	Jessore	29.679	29.713	-'028	Calm	54	93.8	6th, 7th &	79.4	6&9	92.6	80'4	86.2	+2.9	
	Khoolna 5		29.664	29.754			FULL		11th Sep.		alleged at	87.7	77.6	82.7		841
	Chittagong Hil Tracts	Chittagong	55 001	20 103	032	wsw	55†	89°1	ations not re	75'0	000 "	NY SE	1830	04 /	+1.4	80%
3		Barrisal	29.705	29.717	027	Calm	45	92'8	7th Sep. 1	77.8	8th ,,	89.9	79.4	84'7	+5.3	33
BAST BRYGAL	Noakholly	Noakholly	29.712	29.756	003	Calm	62	88.2	6 & 7 .,	75'8	7th	87'4	78.2	82'8	+1.2	851
BR	Furreedpore	Furreedpore	29.692	29.732	-'011	Variable	65.4	90.2	7th ,,	80'4	10th	88'4	81.6	85.5	+3'4	81%
SAST	Daces	Dacca	29 694	29.717	- 029	ssw	84	92.1	7th	80'2	10 & 12 ,,	90.0	80.8	85'4	+1'9	521
	Commillah	Commillah	291699	29.735	024	SE	87	91'3	6 & 8 ,,	75'8	7th	88'5	77:3	82'9	+1.3	821
	Mymensingh	Mymensingh.	29.670	29.728	027	SE	54	89.5	6th ,,	76'6	7th ,,	87.6	78.2	82'9	+0.0	811
1	Bogra	Bogra	29'636	29.699	009	Calm	41	90.3	8th .,	76'1	11th ,,	88'7	77:5	83:1	+0.6	817
1	Pubna	Serajgunge	29.670	29:717	'023	8	46	87'1	6 to 9 "	76.7	11th .,	86.6	79'6	83.1	+0.7	881
BENGAL.	Rajshabye	Rampore Beau- lean.	29'636	29'706	-'015	ssw	90	91.8	6 to 8 ,,	781	9th	90.7	81.0	85.9	+3*9	847
Bx	Maldah	Maldah	29.618	29.695	+ '035	SE	47	94.4	7th	75.7	10th ,,	92.5	79-5	85.9	+3.0	847
North	Dinagepore	Dinagepore	29.592	29.713	035	SSW	31	91.1	7 & 8	74.1	10th ,,	89'2	78'2	83.7	+0.6	801
No	Rungpore	Rungpore		29.720	003	Variable	38	91.8	8th	72.7	10th ,,	88.2	76'6	82.4	-0.1	80.1
1	Cooch Behar	Julpigoree	29'431	29.720	005	9	50	89'4	8th ,,	72.6	10th ,,	80'8	75.0	80.0	-0.5	79.5
	Darjeeling Hill Tracts	Darjeeling	22.923	-	056	South- westerly.	106	66.6	7th "	54'6	11th "	64.2	56.0	60.1	-0.2	50'1
4	Purneah}	Purneah	20.922	29.701	027	Calm	16	91.2	7 & 10 ,,	78'4	10th ,.	89.0	77'4	83:2	0	65%
ВЕПАВ	Mozufferpore	Mozufferpore	29'487	29.666	-	E	98	94'3	sth "	80'8	6th ,,	921	81.2	86.8	1	84%
	Durbhunga	Durbbunga	29.525	29.691	035	ENE	91	94'4	8th	78'5	11th	91.8	80.5	86'0	+2'5	131
NonTH	Chumparun	Motibari	29-472	291700	'008	RSE	124	95'2	7th ,	77-9	9, 10, & 12 Sep.	92'6	791	85.0	+2.6	841
	Sarun	Chuprs	29.478	29.670	032	Calm	91	97.3	6th "	81.2	6th "	94.9	83.1	89.0	+5'5	941
ME	Shahabad	Dehree	29.323	29'675	037	SW &	21	95'8	10th	80.0	12th	94.4	81.3	87.9	+5.5	864
e i	STREET, STREET	Buxar	29.435	29'676 29'687	-'013 -'013	Variable NEly.	89 18	95'4	9 & 11 9th	79°2 75°6	oth "	94.5	80.0	87.4 87.6	+41	501
BERAR.	Gya	Gya	29.311	29.688	021	sw	105	97'0	10 & 12 ,,	79'8	7th ,,	96'2	80.8	88'6	+4'3	81%
B	Patna	Bankipore	29'501	29.682	- '035	Variable	76	94'9	8 & 9 ,,	80.5	6th .,	93.7	82.0	87.8	+3.1	101
BOUTE	South Bhagulpore 3	Bhagulpore	29.218	29.679	033	Calm	13	94.2	7th .,	76'5	11th	91.8	78.8	85*3	+3.2	843
	Southal Pergunnals	Doomka	29*200	29.695	018	SASSE	76	94'8	20	75'0	11th	33.0				
1	Hazaribagh	Hazaribagh	27'714	29.709	- 018	SSW	151	91.0	10th	73.1	6, 11, & 12	80.8	77.8	85'4	+3'7	79'5
NAGEUR.	Lobardugga }	Ranchee	27:597	29.709	0.	Variable	90	89.0	7 & 8 .,	71'4	Sep. 8, 11, & 12	88.6	72.3	82.0	+3.7	79'1
Z	Singbhoom	Chyebassa	28'946	29-708	+*008	South-	36	94.4	art.	77.2	Sep.					
1		Sibsagar	29'404	29'759	- '003	westerly.	90	91.6	6th ., 8th	75'0	6 & 12 ,,	93.2	77.8	85'7	+3.3	551
NY8	Assam	Dhubri	29.013	29:781	017	Calm	61	87.7	out-	74'8	9th ", 10 & 11	88.0	77'4	82.7	-0.8	799
Assa		Silehar "	29.638	29'745	-'087	Calm		92'5	7 & 8 ,,	76'8	IIth	90.3	77'6	81.2	+0.5	

* Means for five days. 1 + Means for six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last the humistry of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past stations in the district sending in returns divided by the numb of stations. A rainy day is one on which at least hundredth of an inch fell.

or the week ending Friday, the 12th of September 1890.

	1 =	1 =	1		See H. L.				SERVATI		T. Der School		The April of	
	amount week.	The same of the	OF	WEEK.	5			RAT	NPALL.					
		of w	-		-	e 1st of mor	nth.		ce 15th May	7 1890.	number days.	ays.	Representative station.	DISTRICT.
	Average cloud at 8 A.M. for	Rainfall of week observing station.	Mean for district.	Normal mean,	Mean for district,	Normal mean,	Variation.	Mean for district.	Normal mean,	Variation.	Average numbers of rainy days.	Normal number of rainy days.		
	3.7 3.0	0°98 0°77		2.85		4'41			38-36			3'9	Pooree Gopalpore	Page
	5'4	0.01			1166			No.			100		False Point	Pooree
	5.0	1.07	1.17	2.43	2.43	3.84	-1'41	39.70	38'55	₽1.12	8.4	3'8	Cuttack	· Outtack
P	1'3	0.23	0.46	2.23	1.13	4'36	-3.53	83.86	89.76	-5.80	1.3	3.7	Balasore	Balasore
ij	7.1	Nil	Nil	2.96	0.04	5 69	-5.65	33.99	47.47	-13.48	0.0	4.0	Saugor Island	South 24-Pergunnahs
	2.6	0.22	0.38	1.91	0.48	3.79	-3.31	35.22	41 93	-6.71	1.0	3.2	Midnapore	Midnapore
	6.9	1.02	0.22	2.24	1.09	4'34	-3.52	38:37	48'31	-3.94	1.1	8'8	Calcutta	{ 24-Pergunnahs Howrah
	7.0	Nil	0.89	2.12	3.77	3'86	0.09	47'95	38.03	+9.92	1.0	8'5	Burdwan	Burdwan
ij	3.3	0.90	0.53	2.30	0.22	4'11	-8'54	38.59	43:75	-5'46	0.2	3.6	Bankoora	Rankoore
	4.0	0.83	1.08	2.79	1.39	5'26	- 3.87	46'61	43'35	+3.56	2.3	8.7	Panadana	f Beerbhoom
	7.0	0.07	0.47	2.78	1.06	5.13	-4.07	43:98	40'15	+3'83	1'0	3.6		west Burdwan
	7.0	0.07	0.47	2.48	1.80	4.51	-2'41	37:96	39.70	-1:74	1.0	3'4	Waishmanhan	Moorshedabad
	7.9	0.01	0.50	2'49	0.81	4'51	-3.70	41'10	43:33	-2:23	11	3.2		(Jessoro
	69	3.64	2.39	3.98	4'97	7.84	-2.87	107:38	97:35	+10-43	3.2		Jessore	Khoeins
				2.68		5.00			63.13	710.0		4.6	Chittagong	
	67	0.30	0.96	3.00	1.50	5*53	-4'33	55'39	62-24	-6.82	2.8	4.2	Demagiri .	
	2.8	3.39	4'06	4.18	5.08	8.18	-3.13	83.02	88*17	-5.12	40	4'8	Barrisal .	Noakhally
	4.6	0.53	0.38	2.39	0.45	4'58	-4.08	34.25	45'57	-11:32	1.3	3'4	0	Farrendnose
	8.7	0.31	0.31	2.89	0.72	5'42	-4-70	49.88	49.55	+0.33	1'8	3.2	Dacca	Daniel Control
	8.0	0.82	1.03	3.01	1.31	5'49	-4.18	49.73	55.96	-6.53	1.8	8.6	Commillah	Timous
	8.0	0.64	1'07	3.34	2.76	5.77	-3.01	59.83	55'43	+4.40	3.5	3.2	Mymensingh	Management 1
)	5.6	1.26	2.48	2 36	2'64	5.02	-0·17 -2·38	39.03	46:39	+6.53	3.8	3.2	Bogra	Bogra
	2.1	0.49	1.13	2 60	2:30	5.28	-3.58	52'05	42:53	-3.20	8.0	31	Serajgunge	
0	81	2.31	2'56	3.28	2.28	5.98	-3'40	44'16	42'61	+9.44	3.0	3.3	Rampore Heanlea	
9	8.9	2:37	2.45	3 36	2.66	5.91	-3.25	55'55	47:17	+8.38	2-2	3.3	Maldah	
	26	1.22	2.88	3.35	6:29	6:36	-0.02	68.00	61:41	+6.29	4'5	3.3	Bungpore	Rungnova
	1.0	5'80	5.99	3'74	14.09	9'10	+4 99	129.03	92:01	+37.02	5.0	3.9		
7	3.2	2.74	4'58	3.93	10.78	8:35	+2.38	139.50		+36'64			Julpigoree	Cooch Behar
1	5'7	12 10 1			Blines 1	5'80	-1.01	64'18	102.86		5.8	4'3	Darjeeling	
0		11.06	3.33	3.35	8.89				47.77	+16.41	2.0	3.0	Purneah	North Bhagulpore
7	2.0	0.17	0.10	2.00	0.10	3.99	-3.80	43.79	34'47	+9*32	0.7	2.9	Mozufferpore	Mozufferpore
	6.4	Nil	0.35	2.31	0.42	4·62 3·99	-4.20	50.58	36 28	+14.00	0.3	2.9	Durbhunga	Durbhunga
ı	1.7	Nil Nil	0.522 Nil	1.03	0'48 Nil	3.39	-8.39	43.94	37'59	+16.55	0.2	2.5	Motihari	
3	2.9	Nit					- 00	13.03	33'41	+10.23	0.0	2.6	Chupra	Sarun
7	2.0	Nil	0.86	1'94	0.37	3'45	-3.08	41'17	32'11	+9.06	0.8	2.7	Dehree	Shahabad
3	3.1	1'49 No	0.00	9100	guar.							The state of	Buxsr)
8	3.6	Nil 0'16	0.02	2'03	0.02	3'49	-3.44	39.51	34'43	+17'27	0.7	2.2	Gya	STORES AND SERVICE
1	27			TENE	No.		5 1 133		33.20	+6.01	0.8	2.6	Bankipore	
9		0.08	0.12	2.22	0.17	6.01	-3.84	46'11	35'35	+8.76	1.0	5.0	Bhagulpore	South Bhagulpore Monghyr
8	7:4	1 25 Nil	1.11	2.72	1'14	4.97	-3.83	47'02	41'18	+5'84	1'5	3'4	Doomks	\$100A-110 to 1800 AND BURGERS
B	5.6	0°87	0.28	2.38	0.83	4.39	-3.87	40'14	41.39	-1.25	0.0	3.6	Hazaribagh	
7		401	0.85	2.23	0.85	3.83	-3.81	30.80	40°10 38°97	-0.30	2.2	3°7 3°6	} Ranchi	Lohardugga Manbhoom
1	3.0	0.03	Nil	2.52	1.06	4.33	-3.26	26.00	43:33	-17:24	0.0	3.9	Chyebassa	Singbhoom
2	0.0	1'47			1								Sibsagar]	
3	7'3	4.71	P.S. H				1000		Amel.				Dhubri	Assam
		0.70	de 100	1	WO KEN			124	TO SERVICE				Silchar j	

the variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

Trans. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

Trans. The means of the district are the numerical average of she resimilar return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of September 1890.

		977			RA	INPALL				To	FAL			ENEW	
Meteorological division.	District.	Station.	Saturday, 6th September.	September.	Monday, 8th September.	Tuesday, 9th September.	Wednesday, 10th Septem- ber,	Chursday, 11th September.	Friday, 12th September.	Number of rainy days.	Rainfall of week.	Total rainfall since lst of month.	Average total rain- fall from 1st of month,	Total rain- fail since 15th May 1890.	Averag rainfal from 15 May to date,
ORISSA	Pooree	Pooree Khurdah Banpur False Point Gor Satpara	0'06 1'58 1'06	0.80	0.30 0.20 0.20 0.30	0.82 0.23 	0°04 0°05 0°01	0°04 	0.15	5 6	1:34 2:68 0:01	1'60 7'44 0'84	3'97 4'81 3'74 5'12 9	41:09 50:43 30:93	82-9 41-9 34-5 44-2 7
	Outinok	Jagatsingpore Banki Cuttack Kendrapara Jajpore Dharmsala	0°10 0°02 0°60	0°40 0°68 0°45 	0°08	,	0°13 0°34 0°38 0°92	0°19 0°62 0'87	0°05 0°.1 0°67	3 4 3 3	0°48 1°11 1°17 1°90 1°21 1°27	4:38 1:95 1:57 2:71 1:54 1:77	9:00 4:24 4:53 8:49 8:97	30°67 42°33 52°21 31°41 52°90 87°56	82'4 84'8 43'8 40'4
	Balasore	Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah	0.21			0.12	0°80 0°72	0.10	0.08	8 1 2 2 2 Nil Nil	1'48 0'72 0'25 0'33 NII NII	1'48 4'47 6'35 0'33 0'17 Nil	3'74 4'05 4'48 4'89 5'00 3'98	30°85 36°03 35°02 34°14 32°38 34°57	37'0 38'1 37'7 42'1 40'6 41'4
SOUTH-WROT BRNGAL,	Midnapore	Contai Saugor Island Tumlook Midnapore Ghuttal Kukrahaty	0.40	0-17				0.20		Nil Nil 1 1 Nil Nil Nil	Nil Nil 0:50 0:40 0:17 3 Nil Nil	0.07 Nil 0.50 0.77 0.17 0.36 Nil	5 92 5 19 4 18 3 44 3 73	30°63 53°33 39°10 55°34 52°85 26°69	46°2 45°2 41°2 30°2 44°1
	24-Pergunnalis	Canning Town Alipore Jail Barrackpore Dum-Dum Baraset		1'55	0.44		0'81	0.16	010	Nil 2 1 Nil 2 3	Nil 0°47 1°55 Nil 2°13 0°94	0°04 6°92 1°55 0°38 2°75 1°03	5°97 5°33 5°62 4°78 4°51	38'02 46'40 41'36 33'75 34'69 35'01	457 457 467 478 478
	Howrah	Howrah Mohesreka (Oaloberiah) Serampore Hooghly Jehanabad		0°07 0°69	0:02			0.14		Nii 2 2 Nii Nii Nii 1	Nil 0°09 0°74 Nil Nil 0°22	0.00 0.24 0.21 2.08 0.22	4'46 4'86 4'13 3'95 3'86 3'92	34.43 45.02 35.84 35.44 44.20	451 471 471 471 471
	Burdwan	Culna Burdwan Cutwa Raneegunge Munkur			1'64 0'19	0.30	010		0.60	Nii 2 8 Nii 9	0°92 Nii 1°74 0°83 Nii	4'89 4'17 2'23 6'85 0'61	8'36 4'01 4'20 4'01 f	41.12 54.64 45.06 44.41 40.14	275 555 265 410
	Rankoora	Balkoore Bishenpore Maliara Khatra Indas Kotalpore Anda Gangajalghati Katpore	0.07							NII NII NII NII NII NII NII	Nil Nil Nil O'07 Nil Nil Nil Nil	1'90 0'12 Nil 0'25 0'37 Nil 0'15 Nil	4'07 3'98 3'04 5'35 9	43'62 86'51 45'68 27'23 47'71 53'03 34'88 49'39	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Hearbhoom	Bh. Soory Hetampore Rampore Haut Balpare Murarai	0,10	2:95	0.01	0.19	0.13	0.52		1 2 3 1 2	0°51 0°28 3°12 0°10 0°25	0°54 3°92 0°27 1°28	5 50 5 74 5 79	38'62 30'74 47'55 42'86 51'68 43'28	41 G
, and a	Nuddes	Ranaghat Kishnaghur Chooadanga Meherpore Kooshtea Satkhira	1.98		3	0.18			0.01	1 2 1 Nil 1	1'98 0'08 0'15 Nil 0'16 Nil	412 2:35 0:13 Nil 2:38	3.77 4.04 4.86 3.68 4.72	41'06 44'01 30'86 36'55 37'33 44'60	BRANK C
	Jessors	Bagirhat Khoolns Nakipur Rampal Narail Jessore			0.23	0.38	0.27		015	2 1 2 Nil 1	0°38 0°38 0°45 Nil 0°04	0°38 0°55 0°66 6°05 0°20	5.91 5.19 5.19	50°88 40°58 46°62 37°66	
	Moorshedabac	Berhampore	6'53		0.07	0.07 0.12			0.11	Nil 1 1 1 2 2	0°18 Nil 0°15 0°24 0°67 0°68	0°63 0°02 2°81 0°24 0°37 1°04	4 '27 4 '40 4 '29 4 '26 4 '68 4 '97 4 '79	43.84 41.71 35.70 33.11 46.85 43.46 47.46	400
		Azimgunge Jungipore Lalgola Jiagunge Akhrigung Patkabari	1*50				0:35	******		Nii 1	1°50 Nil 0°35	2.90 0.47 1.34	5'05 5'77 5'53 5'53	44'39 55'81 45'96	
EAST RESCAL	Chittagong	Cox's Bazar Chittagong Kutubdia Satkanya Rangmati	0.81	0°04 2′83 2°05	0'46	0.08 0.08	0.10		0.75	3 4	1.19	4·16 5·77	8'63 7'05 # 9	117.03 97.70	1
	Hill Tracts Backergunge	Rengmati Ruma Patual:hally Perozepora Burrisai Bhola	100	0°90 2°50 0°25	0°27 0°24	0.58	0.12	1.68 0.30 0.17	016	5 2 4 2 3	3.01 1.88 0.86 0.44 0.66	2:00 0:84 1:28 0:66	6:46 5:40 4:94 5:37	61'20 51'40 12'55 58'30	

atement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of September 1890 -contd,

					R	AINPALI				To	TAI,		0 20	Still To	
erological	District.	Station.	September.	September.	Mondar, 8th September,	Tuesday, 9th September.	Wednesday, 10th Sept. mber.	Thursday, 11th September.	Friday, 12th September,	Number of rainy days.	Ruinfall of week,	Total rainfall since tst of month.	Average total rain- fall from 1st of mouth.	Total rain- fall since 15th May 1890.	Average rainfa from 15 May to date.
BENGAT.		Gournuadi Bauphal		0.48	0.15		0.05		*****	1 2	0°12 0 53	0°27 1°39	9	\$2:04 57:09	,
	Nonkholly	Fonny Harishpore Rameas;	0.20	3°09 3°40 1°90	04.0 01.0 0.03	0.05	0.80	0.80	0°15 0°52	4 6 1	3°29 4 82 0°90	4:16 5:89 2:40	7:50 8:52 P	78:49 92:60 58:91	87 83
	Farreedpore	Maderipore	===		0.27	0.25	0.05	0.61		1 2 1	0°27 0°27 0°61	0°47 0°27 0°61	5.18 5.18	31°59 38°30 32°85	45° 47° 48°
	Daces	Munshikenge Daces Naraingunge Manickgungs Joydeipore	0.06	0.04	0.07		0°04 0°11 0°26 0°40	0°36 0°35	0:35	1 2 2 2 2 5	0.67 0.39 0.15 0.62 4.41	1'27 0'55 0'44 0'62 4'48	6°25 5°62 5°24 4°58 P	51°45 47°00 55°90 46°23 56°57	56 49 50 41
	Hill Tipperals Tipperah	Agartola Comilia Chandpore Brahmunberin Kamchandra	0.10	0.10	6.80	0.60		1'82 0'85 0'34		2 2 1 2	1.92 0.95 0.33 0.94	2.21 1.17 0.30 1.54	4:92 5 6s 5:49 5:86	50°12 55°86 47°44 45°89	48 8 64 61 49
		pore Nasirnagai Daudkandi Kasbo Laksham	****** ****** ******				0.07	0.52	1'25	Nil 1	0°25 Nii 1°25	0°25 0°75 1°99	6:36	36'41 23'08 4 63'68 57'65	54
	Mymenstrigh	Kishorestinge Atia (Tangail) Mymensingh Jami Ipare Metrik ma Subornakhally Durgapore Sherepore Town	0°43 0°15 0°70 0°05	0.03	0°85 0°11 0°18 0°08	0.43	0° 2°10 80	0°54 0°10 1°31 1°10 1°35 0°23	0°.14 0°.15 0°.02 0°.19	4 2 4 3 3 3 3	1'66 0'58 0'26 0'32 2'52 1'78 4'15 1'08	2.86 0.58 2.14 2.59 5.60 3.86 5.50 2.94	6 29 5 91 6 29 5 91 9	42°57 61°49 57°32 80°62 38°03 99°29 48°29	48 59 51 65
on n	Pulms	Pubna Serajkunge	****	0.525	0.02	0°14 0°56	0:67	0.28		1 5	0°14 2°11	6°27 5°00	*34 4:70	33°36 44°634	49 49
ORIH	Rogra	Sherepore Nowkhilia Rogra Panenbibi		1°27 0°08	0°65 1°00	0°42 0°14 0°12	0°49 0°57 0°68 0°71	2.60 0.70 	0°16 0°28	4 8 5 8	4°78 1°41 1°69 2°02	6:99 4:60 3:25 2:60	4°27 3°40 4°86 5°59	56:49 49:34 51:9# 52:55	41 40 50 42
	Kajajanye	Beauleah Nattore Naopaon Lalpore Manda	0.92	0'30	0.03	0°24 2°10 0°37 0°10	0.16 0.10 0.19	0.55 0.12 0.66	0.10	9 3 4	0:46 2:41 0:59 0:0	2:55 3:11 1:24 0'80	5:33 5:82 5:59 P	52'64 51'58 43'91	4
	Maldah	Maldab Chanchal Gajol Sibyanj			0.07 0.33 0.04	0.08	1 52 2 00 3 00 0 48	0.61 0.47 0.50		4 3 2 9	2°81 2°80 3°20 0°52	2:31 2:84 3:20 0:52	6°18 5°78 9 9	45'63 42'66 59'12 42'18	4
	Dinagopore	Mobadebpore Churamon Raigunge Dinagepore Raigorghai	0.03			0.38	3.7± 2:10 -1:13 1:76	0.15	0'80 1'21	Nii 3 1 4 8	Nil 4'17 2'10 2'11 3'89	Nil 4'17 2'35 2'92 3'89	5°10 6°61 5°89 6°01 5°92	41'41 58'23 65'58 60'94 51'64	4 4 5 4
	Ruagpore	Thakoorgaon B.awanigunst (Gyabanda) Rungpere Eurigran Bagdorra (Nilphamari)	0.01	018	2.01	0°75 0°10 1°75 0°04	0.71 0.20 0.52 0.63 0.87	0°23 0°13 	0°41 0°46 1°26 0°30	4 3 5 4	4°87 0°84 1°22 3°77 3°45 1°82	6'84 3'40 3'96 10'36 7'42 4'54	5'74 7'07 5'91 6'72	78'15 64'08 57'01 69'31 81'48 61'73	6 6 7
	Julpigoree	Japare Alipore Dooar Fallacotta Debiganj	0.01	0.08 0.21	0.34	1.26	3:94 2:31 1:45 0:75	0:32	0°47 1°58 0°44 0°57 1°12	3 5 2 3 5	5°61 2°75 2°12 3°89	11'38 19'48 13'13 6'09	9.05 9 9	128'08 162'61 121'14 88'79 148'06	94
	Cooch Behar.	Bhagatpore (Nagrakatta) Dinhatta Cooch Behar. Mickilgunge. Massuhanga	0°38 1°53 0°10 0°76 1°26	0°64 0°47 0°34	0.68	0 07 0 69 2 34	3°64 1°02 2°04 2°07 1°65 1°27	1'08 1'11 1'36 0'75 1'32 1'00	3°25 0°97 0°95 0°53 3°05 1°08	6 5 5 4 6 7	8°96 5°32 6°79 5°49 7°98 5°87	18°01 16°64 19°74 8°15 14°52 16°92	8.69 10.09 9.18 8.49 12.99 6:23	102 24 146 76 121 59 145 98 179 84 161 00	76 96 94 161 88
1	Darjeeling Hili.	Silligori Darjeeitas Kalimperg Kurseong	0°63 0°04 0°57	0.74 0.11 1.46	0.01	0 18 0 60 1 70	0°78 0°78 0°60 1°70	0°10 0°28 0°28 0°20	0'86 0'15 0'06 0'53	7 3 7 6 7	7'95 2'74 1'75 7'14	16'67 4'27 5'04 9'07	9°50 4°68 9 6°53	127:88 100:35 165:49 78:65	91 68
TH REHAR	Purnesb	Kissengunge Arrarenh Purnesh Gondwara Balarampore Maciari		A	0.15	0°28 0°45	0.73 2.66 10.82 2.80 4.40		0.40	3 3	3°35 11°06 4°80	5·24 11·08	6:46 6:14 7 7	63°96 72'86 9 99°65	52 40'
	North Bhagul-	Kaliagani Maddap re Soopool Protabgani		0.01	1.10	0°41	6°07 0°72	0.04	1.92	Nil 2 1	8°71 Nil 0'82 0'72	13:19 Nil 0:32 1:80	5.12 4.75 P	51°01 5±'67 40°54	39° 39° 34° 37°
	Durbhuuga	Lappore Durbnungs Madhuban Bahero Roshera				6.96			0,10	NII NII NII NII	Nil Nil 0:40 Nil	Nil 0:30 0:40 Nil	4.78 5'42 }	51°17 54°05 43°81 49°40 43°41	36
	Mosuflerpore	Sitamarhi Mozafferpore Halipore Para Mahus Sinhar Pupri		0.50		0.08	*****		0.27	1 Nil 1 1 Nil	0°08 0°32 Nil 0°34 0°27 0°27	0°56 0°22 Nii 0°34 0°27 0°20 Nii	4:70 4:41 2:85 7 7 7 7	43 41 46 83 86 12 61 22 39 30 86 13 44 01	23.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of September 1890-con

					R	AINFAL				Тот	Al.				
Meteorological Division.	District,	Station.	Saturday, 6th September.	Sunday, 7th September.	Monday, 8th September,	Tuesday, 9th September.	Wednesday. 10th Sept.	Thursday, 11th September.	Friday, 12th September.	Number of rainy days.	Rainfall of week,	Total rainfall since 1st of month.	Average total rain- fall from 1st of month.	Total rainfall since 15th May 1890.	Avera rains from 1 May date
NORTH BBHAR - concluded.	Chumparun	Motihari Bettiah Bayaka Burhurwa						0.49 1.40		Nil 1 Nil	Nil 0'49 1'70 Nil	Nil 0°94 1°70 0°04	4°47 8°51 9	54°94 53°81 69°20 47°10	3
South Benar	Sarun Shahabad	Gopalgunge Sewsn Chuprah Buxsr Dehree Bhabooah								Nil Nil Nil Nil Nil	NII NII NII NII NII	Nil Nil Nil Nil Nil Nil	3:65 3:38 3:13 3:16 4:15 8:32	48'01 47'42 40'78 42'21 37'50 32'89	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Gys	Sasseram Arrah Mohantah Aurungabad Gya					1.80			Nii Nii Nii Nii	Nil Nil Nil Nil	Nil 1'84 Nil Nil Nil	2.02 3.40 2 3.68 5.69	36'59 29'47 53'95 53'68	3 3
		Nowadah Jehanabad Arwal Daudnagar Sherrghati Rajauli PakriBarawan						0.21		NII NII NII NII NII NII	NII NII NII NII NII NII NII	0°21 Nil Nil Nil Nil Nil Nil Nil	3 80 2 78 1	50°82 48°36 24°95 31°18 41°32 47°58	3
	Patna	Patna Dinspere Rehav Barrh Bickram Hilea					015	0°16 0°95		Nil Nil Nil Nil Nil	0°16 Nil 1°10 Nil Nil Nil	0°16 Nil 1°10 Nil Nil Nil	3°24 3°03 3°69 3°52 1	44°22 40°62 58°96 34°20 51°34 41°92	31 31 31
	Monghyr	Begooserai Monshyr Jamui Gogri Sheikpura				0.45	6°17			Nii Nii Nii Nii	0'62 Nil Nil Nil Nil	0'62 NI NI NI NI	3:50 4:88 3:65 P	36°81 45°68 53°13 64°51 41°66	3: 3: 3:
	South Bhagul- pore.	Bhsgulpore Barka Kelgeng Bangaon	==			0.00	0.08	0.06		1 2 N Nil	0°09 6°12 Nil Nil	0.00 0.12 Nii Nii	4:15 3:78 9	49°77 35°10 48°40 55°94	3
	Sonthal Pergunnals.	Rajmehal Godda Pakour Nya Doomka Deoghur Jamtara Mohagama Nanihat	0.04		0.02		2°41	0°39 0°75 0°47 0°40	0.68	1 Nil 2 2 2 1 3 1	2°41 Nii 1°08 1°48 0°47 0°73 0°05 0°06	2:41 Nil 1:18 1:98 0:47 6:81 0:05 0:06	5-93 4-16 6-56 5-77 4-24 3-17	40°07 41°44 52°45 56°24 40°37 50°89 42°37 22°20	
CHUITA NAG-	Hazaribagh	Pacnamba (Giridi). Hazaribagh Semtagurah Mahudi Hil s					0.38	0*67	0.36	Nii Nii	1'41 Nil Nil	Nil Nil	4.02 4.18 3.87	46'94 40'86 30'99	39 37 46 50
		Jhoomra Hills Barki Chatro Karogdeha kamphar					0-20	0.38	0.15	1 Nil Nil Nil	0°20 0°38 Nii 0°12 Nii	0.20 0.38 Nil 0.12 Nil	4:33 4:05	45.10 42.93 41.47 48.49 38.66	50
	Lohardugga	Lohardugga Ranchi Pulamow Silli Ralumat Hosseinabad Garwah			0.30	0.40		0.83	0.68 0.22	2 2 Nil Nil Nil Nil Nil	0°95 0°85 0°40 Nil Nil Nil Nil	0'95 0'85 0'67 Nil 'Nil Nil Nil	4.98 4.60 4.49	46'45 \$2.59 40'41 \$0'30 89'78 \$1'01	41 43 35
	Singbhoom .	Chyebassa Chakradhar- pore. Ghatsilla Baharagara			0.81			*****		Nii Nii Nii	Nil Nil 0.82 Nil	1°06 Nil 0°82	4.39 2	32'50 26'09 19'41 37'77	43
	Manbhoom	Purulia Gobindpore Kaghunath- pore. barrabhoom	===		0.07	0.04	=	0°07 0°66 1°75	0°23 0°67	3 2 1	0°87 1°38 1°75	Nil 0'46 1'38 1'75	3.93 3.73 ?	39°80 36°06 30°05 52°27	50 37
	*	Jhaldo Chus		0.09		7	===	0.10		2 1 1	0.527 0.00 0.10	0°27 0°81 0°10		36.24 48.10 39.26	

Explanation. —....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the return are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 16th September 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 12TH OF SEPTEMBER 1890.

The break in the monsoon current, which was an important feature of the meteorology of the previous week, has continued during the greater part of the present one, especially in the western districts, where only very scattered light showers have been received. In consequence temperature has been everywhere largely above the normal in all districts except North Bengal and part of East Bengal. The other important features are (1) the existence of low pressure over the Bay which has caused indraught at most of the coast stations, notably so at those in Orissa; (2) slightly deficient pressure, and very light irregular wind circulation at inland stations.

The depression over the Bay at first covered the whole of the northern half, but was very diffused, and without intensification slowly drifted in a westerly direction. On Saturday, the first day of the week, the area within which pressure was under 29.65 inches included this part of the Bay and the whole of Bengal. On the following day the depression had left the east of the Bay and the eastern and northern districts of Bengal behind, and by Monday the 8th, only the western districts of Bengal were within the area, but over the Bay the distribution was unchanged. After the passage of this trough of low pressure over Bengal, the variable winds with a westerly tendency were replaced by southerly or south-easterly directions, and rainfall became more general in East and North Bengal. Meanwhile in Orissa northerly winds blew with considerable steadiness, but as the differences of pressure were very slight, velocity was generally below the average. After the 8th pressure rose slowly, and the depression, though still showing off the coast of the Circars, was of very little importance and gradually filling up. From the 9th till the end of the month the ordinary wind circulation prevailed, southerly or south-westerly winds in Lower Bengal, and easterly in the northern districts. The sky was generally clear, and high temperature prevailed, while at times local heavy showers of rain fall.

Pressure—On the 6th was more than a tenth of an inch below the normal in Burmah and Arakan, and between a tenth and a twentieth below over the whole of the Bay and Bengal, with the exception of Orissa. Chutia Nagpur, and the western half of South-West Bengal. As the depression drifted westwards, pressure rose slowly at the eastern stations, but changed very slightly on the west coast of the Bay, where there was a rise of a few thousandths of an inch on the 7th, and a rise or fall of similar amount on the 8th. The general very slow rise continued on the 9th, and the distribution was then practically normal in Bengal and the northern half of the Bay, after which very small oscillations obtained till the end of the week, and the difference from the normal was generally under two hundredths of an inch. Thus from being considerably below the normal the general tendency has been upwards, and the distribution at the end of the week was almost normal. The

means for the week are below the normal by amounts ranging up to '04 inch.

Temperature—Owing to the clear skies and absence of rain, has been excessive throughout the week, mean excess for the large divisions being 3.9° in South Behar, 3.6 in Chutia Nagpur, 3° in South-West Bengal, 2.7° in North Behar, 2.1 in Orissa, 1.9° in East Bengal, and 1.1° in North Bengal. The hottest days in Lower Bengal were between the 6th and 8th, and in Behar about the 9th or 10th; while the lowest night temperatures were generally recorded on the 6th in Orissa, South-West Bengal, and South Behar, on the 7th in East Bengal, and on the 10th or 11th in the other districts. Maximum temperature rarely exceeded 91° in North and East Bengal and Chutia Nagpur, but in Behar and South-West Bengal it was as high as 97°. Changes were not important, being of the usual oscillatory character and somewhat irregular owing to the local rainfall.

Rainfall—Has been deficient in all districts, defect being 1.98 in South-West Bengal, 1.89 in Chutia Nagpur, 1.78 in East Bengal, 1.74 in South Behar, 1.58 in Orissa, and 1.27 inches in North Behar; while in North Bengal it is only 3 inch. The total mean falls in South-West Bengal, Chutia Nagpur, and South Behar is half an inch or less, in Orissa 1 inch, in North Behar and East Bengal between one and one and-a-half inches, and in North Bengal nearly three inches. Scattered showers fell in Orissa, East Behar, and North Bengal throughout the week, but in the last two districts falls became much more general after the trough of low pressure drifted westward in the early part of the week, and on Wednesday the 10th general heavy rain fell in these districts and in Purneah; the heaviest reports being 10 inches at Purneah, 7 inches at Siliguri, more than 4 inches at Matiari and Kaliagunge in the Purneah district, and more than 3 inches at Gajol in the Maldah district, Churamon in Dinagepore, Julpigoree, and Bhagatpore. After the 10th rainfall was again lighter and more scattered, very few reports being over one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 12th of September 1890:—

			TEMP	ERATU	RH.					R	AINPA	LL.				
137 y - 17 (1 - 14 - 11 1	week.	week,	Avera	ges for	week.	above or week.	,	Of wee	ık.	R	ainy da	ıya.	Since of me			15th 1890.
METROROLOGICAL DIVISIONS.	Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week below normal mean of v	Average,	Normal average.	Variation.	Average number in week.	Normal average num- ber in week.	Variation.	Average.	Normal average.	Average.	Normal average,
Orissa	95'4	75'1	91'8	79'2	85.2	+2-1	1.00	2.28	-1.28	2.7	\$8	-17	2'14	4'20	36.98	38'78
South-West Bengal	96'5	75'4	92'5	79'8	86:2	+3.0	0.47	2'45	-1.98	1'0	36	-2.6	1'16	4'54	40'38	43'14
Rast Bengal	92'8	75.0	88'5	79*2	83.8	+19	1'84	3.13	-178	27	4'0	-1.3	273	5.78	59'60	60.83
forth Bengal	94'4	72.6	88'8	78'2	83.2	+11	5.89	319	-0.30	3.7	34	+0.3	5.74	6.30	69.08	57'02
forth Behar	97'3	72'4	92.1	80.3	86.2	+2.7	1.15	2.42	-1.27	0.9	2.8	-1.9	1.39	4'56	52.71	39.13
outh Behar	97'0	75'0	94'1	80*2	87.1	+3.8	0.45	2.19	-1'74	0.8	2.8	-2.0	0.46	3'94	44.75	35'66
hutia Nagpur	91'0"	71'4"	89 20	73.2*	81.2*	+8.6*	0.20	2:39	-1.89	1'2	3.7	-2'5	0.63	4.36	87:47	40'76

METEOROLOGICAL OFFICE, BENGAL;

* Chychassa not included.

C. LITTLE.

The 16th September 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 7th to 13th September 1890.

THE REAL PROPERTY.		o A.M.			Тимр	ERATURE.			E	I YGROMETR:	r. (hours.
MONTH.	Date.	Pressure at 10 corrected and recto 32° Fahr.	Daily mean.	Maximum,	Range.	Minimum,	Dry bulb at 10	Wet bulb at 10	Vapour pressure at 10 a.m.	Dew point at 10 A.M.	Humidity at 10	Rainfall past 24 hc
September	7th 8th 10th 11th 12th	Inches, 29·693 -706 -725 -723 -729 -726 -699	85-3 85-9 86-7 86-2 86-4 86-2 85-5	90·0 92·0 92·0 92·5 93·0 92·5 91·2	9·4 12·2 12·7 12·7 13·2 12·7 11·4	80-6 79-8 79-8 79-8 79-8 79-8 79-8	86:8 89:1 87:6 87:4 88:6 88:6 87:6	82.5 81.7 81.5 81.3 83.0 80.5 81.5	1.054 .984 .995 .987 1.055 .983 .994	80·9 78·7 79·1 78·8 80·9 77·1 79·0	% 83 71 76 76 78 69 76	0-42 0-01

The total fall of rain from 7th to 13th September 1890 ... 0.43

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Goet. of India.

METEOROLOGICAL OFFICE, INDIA;
The 15th September 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 7th to 13th September 1890.

			s of	neter		Темре	RATURI	R.		Hygno	METRY		WIND.			
Month.	Date.	Maximum in sun.	Number of hours bright sunshine.	Mean pressure barometer at 32° Fahr.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb,	Vapour pressure.	Dew point,	Humidity.	Prevailing direction.	Miles recorded.	Rain.	WEATHER.
		0		Inches.	0	0	0	0	0	Inches	0	1 %			Inches.	
Sept.	7th	134-8	Nil	29.625	85.0	89-2	10.4	78-8	81.7	1.040	80 4	86	Calm and variable	9	0.01	Day cloudy night chieff
n	8th	154.5	5.1	-651	84-0	89.5	11:1	78-4	80.8	1.008	79.5	86	E by S and calm	27	Nil	clear ; o, d, t, g Partially cloudy
"	9th	150:5	9.3	*666	85.0	89-9	11.8	78:1	80.7	0.990	78-9	83	SSE, SSW and calm	39	,	Partially cloudy
,	10th	156.5	5.9	*658	84.8	90.7	11.7	79-0	81.2	1.018	79-8	85	SW, SSE and calm	49	'n	Partially cloudy
	11th	152-5	6.9	662	84-6	90.0	11.2	78-8	81.0	1.013	79-6	85	SW and calm	48	, 1	Partially cloudy,
,	12th	161-4	7.6	-670	83-3	90.8	12:3	78.5	79.5	0.958	77-9	84	SSW, SSE and calm	52	,	Partially cloudy,
"	13th	152 9	47	*654	81.8	89.6	11:1	78.5	79.0	0.955	77.8	88	Variable and calm	35	0.01	Chiefly cloudy,

					Inches.
The mean pressure of the seven days	•		18.		29.655
The average pressure of the corresponding p	period for	24 years,	SG.'s Off	ice	
					Hours.
The total number of hours of bright sunshin	10				39.5
The maximum possible number of hours of		••			86.5
the maximum possible number of hours of	Bungmine		**		000
The mean temperature of the seven days		9 E S			84.1
The average temperature of the corresponding	or neriod				83.5
The extreme variation of temperature				***	12.7
The maximum temperature					90.8
the maximum temperature				***	ALL STATES AND A STATE OF THE S
		13.00			Miles.
The highest velocity of the wind in one hou	r			***	8
					lbs.
The highest pressure of wind on one square	foot			Not	measurable
					%
The mean relative humidity					85
The average relative humidity of the corresp	onding p	eriod for	24 years, S.	-G.'s	
Office				***	86
					Inches.
The total fall of rain from 7th to 13th Septe	mbor 189	0			0.02
he average fall of the corresponding period			Office	11.00	
The total tall from let Tannamy to 13th Sont	mhon 180	10	о ощо		3.14
The total fall from 1st January to 13th Septe			000		41.23
The average fall of the corresponding period					53.64

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the ermometers are verified, and the readings have been corrected to a standard constructed and verified at the sew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet ew Observatory. ove the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph. The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; t, thunder; d, drizzling rain; lr, lightning reflection; dew.

J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

ETEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 15th September 1890.

MEMORANDUM.

Quarterly review of births and deaths registered in twenty-seven of the principal towns of Bengal for the Quarter ending 30th June 1890.

BIRTHS.

The births registered in twenty-seven of the principal towns of Bengal during the three months ending with June 1890 were 4,014, and correspond to an annual rate of 15·12 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·68 lower than the mean rate of the corresponding quarters of the past five years (1885—89), and is also lower than the rate of the corresponding period of any of the past five years with which comparison is instituted, vide the figures below—

保持的企业是公司			QUARTER	ENDING 30T	n Jone of	-	
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per	23:20	17:16	17:00	17-92	18.76	18.80	15'12

The births registered in each of the twenty-seven principal towns during the second quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns:—

				RA	TIO PER I	MILLE.					RAT	TIO PER	MILLE.
	Town			Quarter	ending 30	th June of—		Tow	NS.		Quarter e	nding 30t	h June of-
				1800.	1889.	Average of five years, 1885—89.					1890.	1889.	Average of five years, 1885—89.
Burdwan Midnapore Hughli and Serampore Utterpara Howrah Bali Krishnagar Ranaghat Santipore Jessore Rampore Se Darjiting	Chinsu		111111111111111111111111111111111111111	18'04 14'04 24'72 21'56 12'32 15'16 11'32 14'52 14'52 14'28 13'32 8'00 28'28 16'52 11'56	20°16 13°56 25°60 26°24 23°20 18°08 14°00 16°56 4°60 10°36 13°16 35°56 38°16 14°52	21'44 14'88 22'32 22'04 16'68 19'28 14'84 16'28 6'52 9'96 8'44 29'48 17'08 12'64	Chittagong Comillah -Patna Gya Areah Mozufferpore Durbhanga Chupra Bhasulpore Monghyr Purneah			 	24'80 12'28 28'12 7'80 17'36 13'52 12'72 21'12 9'56 16'60 19'50 16'76 17'08	25°12 12°44 28°12 10°88 16°20 10°76 23°84 19°04 26°24 11°16 18°88	21'96 17'68 29'60 15'32 22'64 13'60 16'44 28'80 12'36 29'28 25'52 13'36 15'00

The birth rate in India is supposed to be 40 per mille. Judged by this standard it will be seen that in all the towns mentioned births are very inaccurately registered. The highest rate attained during the quarter under report was in the town of Rampore Beauleah where it was 28.28 only. Birth registration appears to be particularly bad in the towns of Jessore, Chupra and Patna where the ratios are all less than 10 per 1,000 of the population.

DEATHS.

The deaths registered in the twenty-seven principal towns of Bengal during the quarter ending with June 1890 were 6,765, and correspond to an annual rate of 25.48 per 1,000 of the aggregate population of those towns. This rate is 2.44 higher than the mean rate of the corresponding period of the past five years 1885—89, and is also higher than the recorded mortality of the corresponding quarter of any of the past five years except 1885, vide the figures below—

			QUARTER E	nding 30th	JUNE OF-		
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885-89.	1899.
Ratio of deaths per 1,000 of the population per	27:36	22.48	16.33	21.23	28-23	23'04	25'48

The deaths registered in each of the twenty-seven principal towns during the second quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns:—

				RA	TIO PER I	MILLE.				RAT	rio per 1	HILLE.
	Towns			Quarter	ending 30t	h June of—	To	WNS.		Quarter e	ending 30	h June of-
				1800,	1689.	Average of five years, 1885—89.				1890.	1889.	Average of five years, 1885—89.
Burdwan Midnapore Hughli and Serampore Utterpara Howrah Bali Krishnagar Ranashat Santipore Jessore Rampore Be Darjiling Dacca	Chinsur	ih		23.68 23.36 40.64 30.16 25.40 17.04 18.32 9.28 12.88 9.96 28.48 55.84 23.64	22'76 16'32 19'86 52'44 50'48 15'16 16'16 17'00 8'72 10'36 21'64 31'52 27'92 10'48	27'44 15'96 27'00 31'24 21'76 17'44 16'72 16'32 6'88 8'32 20'24 40'60 25'04 20'28	Narainganj Chittasong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Mongbyr Purneah Poori		Potal	19'40 13'52 24'56 22'56 37'56 24'00 24'20 29'68 13'84 24'40 24'88 22'64 101'32	20 68 18:40 23:36 16:28 37:04 9 44 19:92 32:60 16:84 24:08 82:84 33:80 84:56	24·20 23·64 28·40 18·04 38·76 10·04 20·68 34·52 13·20 30·68 20·28 25·00 45·48

It will be seen that the highest mortality during the second quarter of 1890 occurred in the town of Poori (101.32) and the lowest in Krishnagar (9.28). The total mortality of the twenty-seven principal towns in 1890 is higher than the total rates of the two past periods with which it is compared, and shows that on the whole registration is improving. The death-rates returned from Howrah, Bali, Krishnagar, Ranaghat, Santipore, Jessore, Narainganj, Chittagong and Chupra are I fear inaccurate. The Municipal Commissioners of those towns should again enquire into the matter and take steps to improve registration if the result of their enquiry shows that it is defective as I believe it is. The very high rate of mortality in the town of Poori during the quarter under review is due to an epidemic of cholera which prevailed in that town.

The total mortality during the quarter under review from the several registered death causes is compared in the following table with the mortality from those causes in the corresponding quarters of 1889 and the average of the five years 1885—89:

				RATI	O PER MILLE DURING	тие-
				Quarter ending 30th June 1890.	Quarter ending 36th June 1889.	Quarterly average of quarter ending 30th June 1885—89,
Cholera	***	***		4-52	4:36	4:08
Small-pox				*84	.56	.40
Fever		THE REAL PROPERTY.	***	11.76	8.04	8.84
Bowel-compla	ints	***	***	2.20	2.40	2.92
Injury	***		***	'40	- 52	-52
Other causes	***	***		5 68	6.25	6.20

The above statement, compared with the figures of both the past periods, shows a noticeable increase in the mortality in the 2nd quarter of 1890 under the head Fever.

The highest annual death-rates from the several registered death causes occurred in the lowing towns:

Cholera.	Small-pox.	Fever.	Other causes.
Ratio per	Ratio per mille. Poori 4·16 Ranaghat 2·76	Darjiling 46-72- Poori 36-60 Gya 25-28	Poori Ratio per millo. Poori 14:52 Serampore 13:72 Gya 10:60 Midnapore 10:00 Bhagulpore 9:72

The mortality of the quarter under review according to Sex, Class and Age was distributed as follows:—

According to	Sex. Ratio per	According to	Ratio per	According t	o Age.	Ratio per
Males Females Ratio of male deaths every 100 female dea calculated on the prop tion such mortality be to the total male and fem population	26·44 24·40 to ths or- ars	Christians Hindus Mahomedans Buddhists Other Classes	mille 18'36 26'52 23'16 5'92 11'80	Under 1 year 1 year and under 5 5 years , 10 10 , , 15 15 , , 20 20 , , 30 30 , , 40 40 , , 50 50 , , 60 60 years and upwards	years ,, ,, ,, ,,	mille. 161:96 34:04 13:72 10:28 15:44 15:96 19:48 20:92 39:40 64:84

Detailed information regarding the vital statistics of the quarter under review will be found in the statement appended.

W. H. Gregg, Dip. Publ. Health, Camb., Sanitary Commissioner for Bengal.

1	2		8			•			5		6				7							8				9		10	-1	1 -	18
																				MOR	FALIT	Y AC	CORD	ING 1	-01						
		POI	PULATIO	ON.			B	IRTB	S.									1	Diseas	le.									Se .	x.	
DISTRICTS.	NAMES OF MUNICIPALI-				Nun	СВИВ	o r -	OF P	IO FRI OPULA ANNU	R 1,000 TION	oirths to			DEA	THS FI	eom-			RA	LTIO P	ER 1,00	OOF P	OPULA	TION 1	ER	annum sponding previous	DHA	THS.	POP TION	O PER O OF ULA- PER SUM.	deaths, deaths, propor- y bears d female
	TIRS.	Males.	Fernales.	Total.	Males.	Pemales.	Total.	Males.	Females.	-	Batio of male b	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases,	All causes.	Cholera.	Small-pox.	gevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per population per in the corre- querter of the year.	Males.	Females.	Males.	Females.	Ratio of male death every 100 femule of calculated on the ption such morenity to the total male and population.
Burdwan	Burdwan	18,063	16,017	34,080	85	69	154	9.96	8.08	18:04	123	5	8	112	24	2	51	203	*56	-92	13-12	2 80	*20	5.99	23 68	22.76	113	89	25.00	28-20	112
Midnapore	Midnapore	16,927	16,633	83,560	59	64	123	7.00	7.60	14 64	93	17	14	52	28	1	84	196	2.00	1'64	6-16	3.32	-08	10.00	23.36	16:32	110	86	25.96	20.68	125
Hughli	Hughli and	15,858	15,829	31,687	99	97	196	12'48	12-24	24.72	103	86	15	139	18		64	322	10.84	1.88	17:52	2.24		8'04	40 64	19:80	183	139	46-12	EXC.	131
(Serampore	13,559	12,937	26,496	83	60	143	12.52	9:04	21 56	138	8	6	62	29		91	200	1.50	*88	9:36	4'36	'60	13-72	30.16	32:44	113	87	33-32	(2.13/EV)	123
Serampore {	Utterpara	8,046	2,484	5,510	9	8	17	6.52	5'80	12.33	115	7		15	5	1	7	35	5'08		10.88	3.60	.72	5.08	25.40	30'48	23	12	30.50	1000	155
	Howrsh	58,158	37,660	90,813	197	148	345	8'64	6.48	15:16	133	79	32	131	52	8	85	387	3.44	1'40	576	2.28	-32	3.72	17 04	15:16	253	134	19.00		133
Howrab {	Bali	7,888	6,979	14,815	24	18	42	6'44	4.84	11.32	133	10	2	37	9	4	6	68	2.68	*52	9.96	2.40	1'04	1.60	18:32	16.16	38	30		17:16	113
	Krishnagar	18,268	14,214	27,477	55	- 45	100	8.00	6'52	14.52	122			42	3	3	16	64		***	6.08	.40	.40	2:33	9.28	17'00	40	24	12.04	1000	179
Nuddes	Ranaghat	4,028	4,655	8,683	13	18	31	5.86	8'25	14.28	72		6	-11		1	6	28		2.76	5'04	1'84	'44	2.76	12.88	8.72	16	12	15.88		154
	Santipore	13,708	15,979	29,687	62	37	99	8.32	4'96	13.39	167	1	6	39	10	6	12	74	-12	-80	5'24	1'32	*80	1.60	9.96	10.38	41	33	11.96	8'24	145
Jessore	Jessore	4,830	3,665	8,495	13	4	17	6.13	1.88	8.00	355	1	3	29	9	141	4	39	-44	1'40	13'64	-92		1.88	18-36	21.64	24	15	19'84	DATE OF	121
Rajshshye	Rampore Beaulesh	Escape Ser	9,025	19,791	73	67	140	14.72	13-52	28:28		3		97	7	4	23	139	.60		19.60	1'40	*80	5'64	28.08	31.2	81	58		25 68	117
Darjiling	Darjiling	4,579	2,439	7,018	15	14	29	8.25	7:96	16.25	107		1	82	6	1	8	98		'56	46-72	3.40	*56	4'52	55.84	27-92	59	39		63-96	80
	Dacca	42,782	87,379	80,161	117	115	232	5.80	10 To 30	11.26	46	48	11	194	54	9	151	469	2.12	'52	9.68	2.68	*44	7:52	23.04	19.48	280	182	1000	19.44	134
Dacos {	Narainganj	7,605	4,956	12,561	32	46	78	10.16	14'64	24.80	69	3	4.	24	10	4	20	61	-92	31	7.64	3.16	1'24	6.36	19.40	20'68	40	21	21.00		124
Chittagong	Chittagong	13,340	8,790	22,130	39	29	68	7.04	5.24	12.28	134	1	1	33	13	2	25	75	.16	*16	5-96	2.33	*36	4'48	13.59	18'40	46	29	13.78	THE COLUMN	104
Tipperah	Comillab	8,153	5,353	18,506	39	56	95	11.2	16'56	28.19	69	6		59	3	1	14	83	1.78		17'45	*88	-28	4.12	24.56	23'36	38	45		33.60	78
Patna	Patna City	78,762	81,475	160,237	166	148	314	412	3.68	1	Marie B	360	46	264	56	15	164	905	8.96	1.13	6:56	1.36	*36	4'08	22.56	16:28	476	429	10.15	21.04	114
Gys	Gya	38,290	37,831	76,121	178	158	331	9 08	8*28	17:36	109	21		481	5	6	202	715	1.08		25'28	-24	*28	10.60	37.56	37-04	363	852	57.92	37-20	101
Shahabad	1	20,960	22,505	43,465	72	86	158	6.60	7.88	13.62	83	36	11	177	16	8	13	261	3 28	1.00	16:28	1'44	'72	1'16	24.00	9'44	136	125	25.92	22-20	116
Mozufferpore		23,084	19,658	42,749	68	68	136	6:36	1000	19.72	5000	85	10	74	49	6	35	259	7.92	*92	6.92	4.56	*56	3*24	24:20	19-92	119	140		28'48	72
Durbhanga	Durbhanga	83,774	32,322	66,096	195	154	349	11.80	185	91.12	833 H	120	3	265	55	4	44	491	7.24	*16	16.00	3.32	*24	2.64	29.68	32.60	261	230		28'44	108
Sarun	Chanes	25,116	26,054	51,670	65	58	124	2.08	4'43			16	23	60	22	10	48	179	1.50	1.76	4'64	1.68	.76	3.76	13 84	16'84	101	78		11.72	137
		29,640	27,813		127	112	289	8'84	7-76	16.60	200	36		163	11	1	140	190	2.48		11.32	-76	'04	9.72	24.40	24'08	188		25:56	E 33.55	168
Monghyr	Mongbyr		29,886	57,520	158	132	HEST	10.60	105 mm	19.80	CLEAN FOR	23		187	45	4	99		1'56	E SIMPSO	13.00	3.12	*24	200000	24.88	20.84	188		STATE OF THE PARTY	23 12	115
Purneah	Purneah	8,463	6,558	15,016	.34	29	1000	9.04	HALLE	16.76		1	2	70	8		4	10.000	*24	200000000000000000000000000000000000000	18.64	-0.36		1.04	22'64	33*80	45		CHECK	24'40	87
Poori	D.	13,247	11,537	24,784	47	59	(ES)	7.56	TOTAL CO.	17.08		233	26	227	43	9	90	PS4 75 AM	V5-34000	Lacino 65 / 1	36 60	-	100184	-	101.33	84'56	272	1000	100 mm	123-40	
			100			-D.15							1				70.700		18.8	Er IS		0. 1				1111	J. S.		100		
	TOTAL	550,988	510,588	1,061,574	2,115	1,899	4,014	7-96	7'12	15:12	111 7	901	900	3,126	897	114	1,511		4*50	.0.	11'76	2'20	*40	5'68	25.48	22.22	3 847	9 119	90-11	04:40	108

1897

MORTALITY ACC	ORDING	TO-

		1					Class.															Aį	re.								
DISTRICTS.	NAMES OF MUNICIPALI- TIES.		DEAT	ня ам	ong-		RAT		1,000 OF		CA-					DEATE	(8,							RATIO	O PRB 1,	000 OF P	OPULATI	ON PRE A	NNUM.		
		Christians,	Hindus.	Mahomedans.	Budhista.	Other classes,	Ohristians.	Hindus,	Mahomedans.	Bndbiste.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and up-	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years,	29 and under 30 years.	30 and under 40 years.	40 and under 50 years.	56 and under 60 years.	60 years and up-
Burdwan	Burdwan		144	58	1.	1		24.32	22.64			34	10	6	9	10	32	27	20	20	34	206.04	17.72	10-28	14'28	12.76	16.13	15.64	18:12	32.26	91-76
Midnapore	Midnapore		153	41		2		23'60	22.68		43.54	24	19	9	7	5	27	28	26	14	37	129-20	32.28	9.60	9'20	6-32	14.68	20.16	27'88	27.12	80'84
Hughli	Bughli and Chin	. 2	246	74	4.000	-	34.76	38:92	48.00	C. Sale and	100	57	28	18	9	16	47	46	29	99	50	283-92	50'44	24-92	14'48	25.48	30.28	32.50	27.80	33.84	1000
(Serampore	1	181		01:20:00	100		28.68	81'00			42	22	14			20	87	17	15	24	236'60	4.40	22.24	9.00	7:32	14 92	29-76	20.13	31.35	96'44
serampore {	Utterpara		34	1		1		25.2	21-72			4	1				3			4	9	99-36	9.48	17.16	16.68	9.08	10.40	15.08	28'52	43:44	69.00
(Howrah		285	95	48335		14.76	16'72	18 52			54	43	18	10	16	67	67	35	81	46	104.68	31'04	11'44	6.04	8.73	11.80	13.88	11.88		141.25
Howrah {	Pali		65	3	n anna	1		10.36	972		100	5	9	9	9	1	11	7	5	01	11	55-24	36.00	33.76	6-72		13.14		HARRY I	22.56	49.04
1	Krishnagar	3	39	22	H California	1	21.16	8:36	10.80			9	5		9			12		0	13	73'56	8-08	1.16	FU 15	2'96	C-12/2/20	10.00	10.33	30'52	60.08
Nuddes	Ranaghat		24			1500	1	13:08	11.72			8	9			5			1		10	154'56			2.81	9.72	1.64		7:33	17:08	30.08
	Santipore		61	13	N EUROPE	***		11.76	5.80			17	6	R				,			16	80'44	8.28	2.00		35.08	5.58	6:40	3.96	16.56	35.12
essore	Jessore		21		Billion		1	18.60	18.80			1	3	0		3	7				10	20.60	24.58	6.32	2.72	7.16	6'48	6'44	4.25	6.83	32.56
tajshahya	Rampore Beaules	11000	72	67	- Talla			29.04	27.32		"	27	7		6	13	92	20	0		20	266.00	10.72	10.08	6.00	16:36	13.88	10'44	22.84	49.72	43'64
Darjiling	Darjiling	3	88	A CONTRACTOR	,		75.00	76'60	39-20	2'40		19	15		2	3	20	16			20	628.08	93.58	15'36	13.58	31-28	21.16	22.16	14'64	22.56	83.04
6	Dacca	1	276	185		HS In	8:40	27'86	18.80		1	71	45	25	16		16.534	65		90		570555		27.32	16.36	18.72	40.00	44'68	28.88	147'52	118:32
Jacoa {	Narainganj	***	90	41		***		12'64	26'60	-		20	7	20	10	22	69	77	43	33	73	140'60	24.40	10.04	8.01	12.01	18.00	22.28	20.48	27.84	52.36
hittagong	Chittagong		9	60		1	20.08	6.50	15.68	25-32		14			3		6	3			8	286 72	24'56	15.12	14.08		8.96	5.60	20.08	5.08	49:04
lipperah	Comillah		32	51	1	-		21.52	27.60	1033		15	R		3	1	13	n		0	7	99.44	16'24	6.40	4'64	1.64	11.50	13.16	15.92	18:40	35.16
Patna	Patna City		672	219			45:04	22'56	22'40	***		90	163	55		0	12	*	5	3	26	202.00	18:32	9.80	8-20	15.88	17'36	8.00	15.20	14'96	153'36
Gya	Gya		567	148		""		37-76	36.80			127	97	HE I	51	63	110	112	91	75	155	83.22	28.20	13.04	14.16	57.26	15.24	19.24	19.32	21.50	44'88
shahabad	Arrah		188	73		-		24'24	23.25		***	38	43	29	23	14	61	53	85	88	139	283.76	61.04	16.26	13'04	10.68	16.26	16'64	34.60	53.56	108:00
Morufferpore	Moaufferpore	1	166	92	1350		1 17:16	22'08	29.48	***		47	57	16	20	10	20	34	17	16	47	118.00	38 76	12.44	18.08	12.68	10.16	51,13	14.48	20.64	65'16
Durbhanga	Durbhanga		338	158			Party.	27-92	84'80		***	76		83	10	8	30	28	21	16	29	196.84	36'80	29.32	10.08	10.25	13.96	16.04	16'76	19.68	47'64
Sarun	Chupra	1	187	41		,	97:00	13.80	13-76		***	46	120	46	20	25	45	48	38	18	55	195-24	63 04	23.22	18.60	24'84	13.48	17-20	20.40	16 40	68'84
Bhagulpora	Bhagulpors		255	92		***	37:36	24.72	21.32	-"	***	48	23	9	7	7	26	13	7	19	20	136.04	17.80	6.04	5'58	8*04	11'28	6.68	4.60	18:36	23.48
Monghyr	Monghyr		286	71	***	***	41'44	1		***	***	72	44	20	11	17	44	27	32	30	54	241-20	32.44	13.60	6.96	16-24	16.68	11.64	19:92	28-16	59.96
Purnealı	Purneah	1	37	47	***		16.80	16:19	22.56	***	***	72	47	10	10	25	46	87	28	13	70	193-92	20.70	5.64	6.96	26'44	17.70	16.29	17'56	18'04	37 00
Poori	foori		626		***	***	23.92	16.12	83.50	•••	••	11	7	10	3	1	16	17	8	8	4	155'44	23.16	25-29	10.04	4:00	19.48	23'80	17:24	84-12	19.80
	TOTAL	90	-	-	***	***	*****	102.04	38.68			26	34	13	11	29	78	126	96	111	104	343'20	75'68	23.16	23'24	62:36	59.04	194'32	115.22	199.00	230:32
加強等。	***	32	5,022	1,706	3	2	18'36	26'52	23.16	5.92	11:80	1,028	791	376	248	313	844	855	655	589	1,066	161.96	34'04	13.72	10.58	15'44	15 96	19'48	20.92	30.40	64.84

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of June 1890.

The deaths registered in forty-five districts in Bengal during the month of June 1890 were 114,999, and correspond to an annual rate of 20.88 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 2.28 higher than the mean rate of the corresponding months of the past five years 1885—89, and is also higher than the rate of the corresponding period of any of the past five years, vide the figures below—

	June 1885.	June 1886.	June 1887.	June 1885,	June 1889.	Monthly average of five years, 1885—89.	June 1890.
Ratio of deaths per 1,000 of the population per annum	18.00	15'96	,20:40	19.08	19:68	18:60	20'88

The following table shows the highest proportions of deaths registered during the month of June 1890, compared with the corresponding month of 1889:—

Districts.		Ratio per mil	le during—	Districts.		Ratio per	nille during-
		June 1890.	June 1889.			June 1890.	June 1889.
Darjiling		46.32	Service Control of the Control of th	Noakhali		29.52	26.76
Chumparun		42.48	. 14.40	Monghyr		29.28	19.92
Patna	114	36.48	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN 1	Durbhanga		26.52	13.08
Julpaiguri	100	33.00	. 30.21	Dinajpore	***	24.96	19.44

The figures of June 1890 show a distinct advance towards accuracy in death registration in the districts mentioned.

The total mortality during the month under review from the several registered death causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89:—

					Ratio per mille du	ring-
				June 1890.	June 1889.	Monthly average of five years 1885—89.
Cholera	444	***	•••	2:40	4.32	2.52
Small-pox	***	***	***	.24	12	12
Fever	***		***	14:40	11.40	12.12
Bowel-complaints	***			'48	•60	-72
Injury	***	***	***	.60	(6)	.60
Other causes	***	•••	***	2.52	2.40	1.20

It will be seen that the death-rate of June 1890 under the head Fever was considerably higher than in the two past periods, with which it is compared. Under the head Cholera, there was a sensible reduction in mortality during June 1890 as compared with June 1889. The mortality from the unspecified diseases returned under the head Other Causes in June 1890 is higher than the average rate of the corresponding month of the past five years 1885—89.

The highest annual death-rates from Cholera and Fever occurred in the following districts:

	Chol	era.				Fever			28
				Ratio per mulle.				77.72m3	Ratio per
Chumparun Patna Monghyr Durbhanga Poori Mozufferpore Balasore Sarun Bhagulpore Cuttack				21·24 10·92 7·92 7·56 5·88 4·68 4·44 3·48 3·36 3·12	Darjiling Julpaiguri Noakhali Dinajpore Rungpore	=	::	1001	33·60 30·72 26·64 22·68 20·04
Gya Shahabad			:::	2·64 2·40					

From Small-pox high mortality occurred again only in the district of Chumparun—mortality 2.64 per 1,000 of population.

SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 17, 1890. 1899

The mortality of the month under review, according to Sex, Class and Age, was distributed as follows:—

According to Sex.		According to	o Class	According to Age.	
	Ratio per mille.		Ratio per mille.	According to Age,	Ratio per
Males Females Ratio of male deaths to every 100 female deaths ealculated on the proportion such mortality bears to the total male and female population	22·92 18·84	Christians Hindus Mahomedans Buddhists Other classes	12·00 24·60 19·56 20·04 19·44	Under 1 year 1 and under 5 years 5 , 10 , 10 , 15 , 15 , 20 , 20 , 30 , 30 , 40 , 40 , 50 , 50 , 60 , 60 years and upwards	132 48 24 24 11 76 10 32 13 68 13 80 15 60 20 76 28 44 47 16

Detailed information regarding the mortuary statistics of the forty five districts of Bengal during the month under review will be found in the statement appended.

W. H. Gregg, Dip. Publ. Health, Camb., Sanitary Commissioner for Bengal.

The 10th September 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of June 1890.

1			8					•						4	6					6	1			8	9
									118				יע	RTALI	TY AC	CORDIN	0 TO-								
		PO	PULATION.						•			Dise	150								To day		Sex.		E
DIVISIONS.	DISTRICTS.						DHA	THS FRO	x -			RA	TIO PHR	1,000 03	POPUL	ATION PR	R ANNU	•		ISON WITH S PERIODS.	DEAT	HS	RATIO PE OF POPUL PER AN	LATION	calculated such mor- total male
Di Ciolono.	planators.	Malen.	Females.	Total.	Cholers.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fovers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of ponu- lation per senum in the previous	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths 100 female deaths on the proportion tality bears to the
URDWAS	Burdwan	668,295 507,136 381,563 1,243,195 315,865 174,366	723,528 534,418 412,865 1,972,870 347,889 177,689	1,391,823 1,041,752 794,428 2,515,565 663,050 351,955	1 1 2 195 3 9	11 29 3 206 12 	1,293 912 837 2,473 745 813	31 26 10 159 84 52	40 51 23 109 31 23 54	394 333 409 546 134 58	1,770 1,372 1,284 3,617 1,009 455	908 91 92 948 94 94 113	*08 *24 *03 *96 *12 	11'04 10'68 14'60 11'76 18'44 10'56	*24 *24 *12 *72 1*44 1*68	*24 *48 *24 *48 *48 *72 *60	3°36 3°72 6°00 2°52 2°40 1°92	15°24 15°72 19°32 17°16 18°24 15°45	18:00 18:36 23:88 15:60 19:56 21:48	24'60 19'32 23'16 17'40 14'28 16'92	928 781 857 1,884 509 250 759	842 591 627 1,753 500 205	16.56 18.48 20.64 17.88 19.32 17.16	13°9± 13°20 18°12 16°44 17°16 13°80 16°08	118 140 113 108 112 124
Assidbrov	Serampore). Howrah 24 Pergunnahs Nuddea Jessore Murshidabad Khulna Dinajpur Rajshahye Rungpore	316,479 800,841 808,779 959,271 586,483 568,402 782,292 660,710 1,067,701	318,902 812,521 849,942 980,104 640,507 511,546 732,054 678,893 1,030,263	685,381 1,673,362 1,655,721 1,939,375 1,220,790 1,079,948 1,514,346 1,339,603 2,097,964	30 53 10 13 12 67 38 48 8	46 17 20 8 9 8	397 1,627 1,420 2,563 1,239 1,399 2,876 2,191 3,510 1,013	157 71 21 9 11 9 3 17	45 106 139 144 93 63 87 86 66	252 247 254 170 218 199 140 130 222 163	925 2,121 1,857 2,907 1,576 1,737 3,152 2,473 3,815	*48 *36 *07 *07 *10 *78 *24 *36 *63	·84 ·12 ·12 ·04 ·08 ··· ·06 ···	7°24 11°52 10°20 15°84 12°00 15°48 22°68 19°56 20°04 16°56	2°88 '48 '12 '04 '09 '09 '02 '12 '03 '06	72 72 78 84 84 86 60 78 36	4'68 1'68 1'89 '96 2'04 2'16 1'08 1'08 1'20 2'64	17:40 15:12 13:44 17:88 15:36 19:20 24:96 22:08 21:72 20:28	17-28 14-04 14-16 19-63 17-28 21-48 22-32 23-40 19-20 16-92	14'16 18'08 18'00 17'76 19'92 17'28 19'44 16'44 18'38 15'00	490 1,140 1,036 1,613 869 937 1,804 1,279 2,280 673	495. 981 821 1,293 707 800 1,348 1,193 1,535 570	18'48 15'84 15'36 20'16 17'76 19'68 27'60 23'16 25'56 21'60	16-83 14-40 11-52 15-84 18-20 18-72 22-08 31-10 17-76 18-84	113 110 133 127 135 105 125 110 144 115
AJEHANTE	Bogra Pubna Darjiling Julpaiguri Dace Ibaces Faridpore Backerganj Mymensing Chittagong Woakhali	872,193 648,311 89,351 305,972 1,033,863 805,989 973,479 1,555,840 531,649 415,248	361,200 663,417 66,294 276,418 1,082,487 825,745 927,410 1,501,103 600,692 405,524	735,393 1,311,728 155,645 582,390 2,116,350 1,631,734 1,900,889 3,056,943 1,182,341 820,772	1 10 85 62 30 55 133 148	72	2,046 487 1,492 1,886 1,391 2,158 3,804 1,439 1,828	102 10 100 20 31 61 60 18	52 69 2 13 120 81 150 94 72 65	83 51 51 405 191 867 502 190	1,243 2,104 602 1,662 2,587 1,635 3,263 4,606 1,949 2,124 2,256	*02 *008 *73 *72 *24 *12 *24 *48 1*58 *04	**************************************	18:60 83:60 80:72 10:68 9:48 13:56 14:88 16:24 26:64 14:88	703 7'89 112 60 113 112 12 12 100 112 113	*84 *60 *12 *24 *60 *48 *84 *56 *73	78 3'84 '96 3'16 1'32 5'40 1'92 1'93 1'56 1'80	20 16 46 32 83 00 14 64 12 00 20 52 18 24 20 16 29 52 17 76	18:48 59:76 33:24 14:52 15:60 23:28	14'40 46'48 30'24 12'12 11'16 19'20 15'43 14'04 26'76 15'26	1,268 349 874 1,426 903 1,839 2,577 1,000 1,007 1,179	988 253 725 1,161 732 1,410 2,889 909 1,013 1,077	23:40 46:80 34:20 16:44 15:44 22:56 19:80 22:56 29:04 18:34	16'92 45'73 21'56 12'84 10'56 18'48 16'68 18'12 29'88 17'28	138 102 108 128 127 123 118 124 97
LTSA	Tipperah Patna Gya Shahabad Mozufferpore Durbbanga Sarun Chumparun Monghyr	768,450 856,501 1,043,441 960,250 1,265,731 1,295,788 1,085,847 879,627 969,124 979,119	745,911 895,058 1,081,241 1,014,659 1,316,329 1,337,659 1,199,832 859,981 1,900,650	1,514,361 1,751,559 2,124,582 1,964,909 2,582,060 2,633,447 2,285,679 1,721,608 1,969,774 1,966,158	34 1,594 481 400 1,029 1,682 676 3,949 1,512	145 91 55 73 15 78 391 12	1,881 2,818 2,954 2,538 3,603 3,611 2,077 2,058 2,956	26 195 18 32 111 146 212 63 51	83 63 119 96 181 131 107 118 157 97	232 627 290 315 418 249 1,084 420 326 446	5,342 3,953 3,436 4,815 5,834 4,234 6,089 4,814 3,720	10 92 2 64 2 64 2 49 4 68 7 56 3 48 21 24 7 92 8 30	"96 "48 "24 "06 "36 2"64 "07	19:20 16:08 15:48 13:92 16:44 10:80 14:28 18:00 15:72	1°32 °09 °12 °48 °60 1°08 °36 °24 °13	*84 *80 *36 *60 *48 *84 *48 *48 *72 *84 *48	3'60 1'56 1'93 '12 1'08 5'64 2'88 1'92 2'64	36'48 22'32 20'88 22'32 26'52 22'30 42'48 29'28 22'68	34'56 28'08 28'44 20'52 31'20 21'72 30'36 39'84 34'20	18:66 17:88 18:12 10:20 13:08 16:08 14:40 19:92 19:20	2,865 2,090 1,900 2,764 3,117 2,388 5,448 2,582 1,994	2,477 1,863 1,586 2,061 2,717 1,846 2,657 2,232 1,726 1,140	40°08 24°00 23°88 26°08 28°80 26°25 47'40 31°92 24°36	33°12 20°64 18°12 18°72 24°36 18'36 37'44 26'76 20°88	121 116 131 139 118 143 126 119
BISSA S	Bhaguipore	979,119 937,080 340,998 785,336 877,762 446,609 461,461 841,963 796,657 226,681 625,328	987,039 911,807 363,450 782,763 917,363 441,873 483,819 659,839 812,587 227,094 632,900	1,960,158 1,845,657 710,448 1,568,993 1,795,065 888,487 945,280 1,104,742 1,609,244 453,775 1,058,228	564 100 85 173 469 441 858 33	6 4 27 44 6 3 18 8	2,580 2,393 911 1,374 1,217 338 610 1,446 1,920 465 2,289	25 3 2 17 240 114 303 59 113 52 58	69 23 38 39 96 39 58 61 9	43 81 237 640 664 446 197 640 142 365	2,614 1,102 1,843 2,689 1,640 1,781 1,799 2,700 708 1,821	60 1'32 1'32 3'12 5'88 4'44 24	103 113 148 107 102 112 113 148	15'48 15'36 10'44 8'64 4'56 7'68 15'60 14'28 12'24 14'52	'01 '02 '13 1'56 1'44 3'84 '60 '84 1'32 '60	*36 *38 *24 *60 *48 *71 *60 *06 1*08 *80	133 180 420 888 564 204 468 372 408	16'93 18'60 14'04 17'88 92'08 92'56 19'44 20'04 18'72 20'64	23·28 25·08 18·00 17·52 16·68 16·44 31·20 30·36 16·20 23·88	15'56 17'49 14'93 42'60 100'63 60'24 20'52 19'56 19'44 20'52	1,474 625 987 1,377 809 993 933 1,402 383 957	1,140 477 855 1,312 831 788 806 1,298 325 864	18'84 21'60 15'00 18 72 21'72 25'80 20'40 21'00 20'16 21'84	15 00 15 73 13 04 17 16 22 56 19 44 18 48 19 08 17 16 19 44	120 137 115 109 96 132 110 110 117
	TOTAL FOR THE	89,663,706	93,195,684		18,380	2000	79,658	2,924	1000	14,075		2:40	*24	14'40	*48	-60	2.52	20.88	92.26	19.68	63,594	52,405	22.93	18'84	121

1901

	1					SELECTION OF						MOET	ALIT	Y ACCO	RDIN	IG TO	-			20.0											
						Cla	18.														Age.										
DIVISIONS.	DISTRICTS.		DEAT	HS AMOS	r a –		RATIO	PER 1,0	00 OF P		103				ı	EATHS	•						RATIO	PRE 1	,000 0	P POPI	ULATIO	or Pul	R ANN	UM.	
		Christians.	Hindus.	Mahomedane.	Buddhists.	Other classes.	Ohristians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	s and under 10 years.	200	and ears.	ander		ests.	and union	on years and up	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	and un	50 and under 60 years.	60 years and up-
BURDWAY	Burdwan Bankura Birbhum Midnapore Hughli Serampore Total (Hughli including Serampore).		1,436 1,174 998 3,114 799 386 1,165	334 05 247 270 209 69 278	1111111	 188 39 283 	41'28	15:36 15:36 12:72 16:68 17:88 15:84	15-12 16-80 18-12 19-20 19-32 13-80 17-52	=	18 84 32 28 23 76	384 328 460 649 149 59	105 136 98 386 67 55	80 74 41 203 55 18	80 64 34 131 22 9		214 144 110 431 135 55	227 182 130 451 136 60	193 105 113 357 128 49	149 98 83 320 94 42	186 154 476 174	146'28 143'16 330'72 124'76 105'36 70'56	13°32 14°64	5°76 5°88 4°89 6°96 9°60 6°36	7:08 7:08 5:04 6:36 4:20 3:48 8:96	13.56 13.32 10.92 11.16 9.84 9.12	9°96 9°60 9°72 10°92 12°48 9°36	12°24 10°80 13°72 14'76 15°24 12°86	16.58	18'86 18'84 17'16 26'76 23'52 19'92 22'32	\$0°00 \$9°96 \$9°96 \$1°64 \$6°40 \$1°72 \$4°84
PRESIDENCY	Howrah 24-Pergunnaha Nuddea Jessore Murshidabad Khulna Dinajpur Rajahabye Rungpore Boers Pubna	4 12 5 1 3 	72n 1,336 788 1,202 823 790 1,466 444 1,481 213 58 570 1,055	201 773 1,064 1,704 755 944 1,686 1,978 2,334 1,030 1,623			23'40 14'16' 9'24 24'36' 48'12'	17:16 15:36 12:96 18:72 15:48 18:0 24:48 20:40 21:72 18:12 18:20	18:24 14'76 13:80 17:40 15:24 20:28 25:32 22:56 21:84 20:76 20:40			213 835 362 434 325 236 310 358 436 234 259	127 266 204 382 159 247 337 885 316 177 343 98 162 390 235 616 660 301 485 539	55 196 131 216 122 187 252 257 261 123 266	50 101 100 161 82 90 181 152 202 62 216	41 130 123 198 78 77 212 160 263 56	71 246 176 319 160 220 5)7 310 567 136 212 102	65 190 179 277 171 158 478 311 591 117 180	101 195 172 299 133 150 363 195 495 115 168	46 158 156 214 120 113 216 157 308 85 117	305 254 347 227 259 294 187 286 136 287	137'16 91'20 113'88 101'04 139'92 94'20 106'20 1.6'93 99'72 183'12 85'80 207'00	16'56 12'00 19'92 13'44 23'16 23'16 28'82 15'72 21'16 22'80	8'40 10'44 6'12 11'40 8'04 14'76 11'88 14'28 9'96 12'36 15'12 30'12	9.72 7.56 6.84 9.84 8.04 9.84 14.52 13.56 12.13 10.20 20.52 38.60	8.52 11.40 12.12 15.96 9.48 9.60 21.72 18.36 20.64 11.28 26.16 89.96	19:32 13:08 12:48	8'28 9'12 9'36 12'60 11'64 12'72 25'32 19'32 21'00 13'32 11'88 46'56	27.84 21.00 16.56	14'64 19'68 17'40 20'40 18'60 21'84 32'40 26'40 28'08 27'96 10'20 62'88	48°24 56°24 29°04 55°16 35°04 49°68 47°64 31°80 42°00 44°28 32°64 60°24
DACCA {	Darjiling Julpaiguri Dacca Faridpore Backerganj Mymensing Chittagong Noakhali Tipperah Paina	1 11 3 3 3 1 3 5	1,148 674 946 1,503 4u9 429 868 4 844	1,428 968 9,313 3,038 1,578 1,589 1,394 491	14	"15 "124 "	14'16 96'04 15'00 13'08 9'60 79'44 84'08 40'80	18°20 58°74 34'82 16'08 12'36 18'12 18'12 17'76 24'24 20'28 37'80 21'98	24'84 30'48 13'68 11'76 21'84 16'93 20'52 31'32 16'56 27'60 24'84	8°88 26°28	38 68 37:24	54 356 875 215 790 574 278 363 435 706	98 167 390 235 616 660 301 485 339 1,105 818	266 47 95 196 146 275 441 211 272 197 532 299	67 113 96 130 237 95 93 113 268 171	44 68 1:6 86 107 281 86 90 128 103	206 229 159 184 521 212	100 203 269 162 245 494 163 122 188 441 357	182 200 131 222 441 136 106 159 486 399 374	118 187 152 227 340 181 107 157 427 362	140 502 253 478 677 296 264 330 629	264'48 76'44 63'60 202'80 92'28 100'92 187'68 147'36 205'08 182'28	28'12' 15'60' 13'08' 29'64' 19'20' 24'48' 51'84' 19'44' 62'52' 26'64'	12-84 6-96 7-30 12-36 10-56 17-04 24-72 9-96 27-60 12-24	12:08 5:88 6:60 7:32 9:24 8:28 12:48 8:28 19:20 9:72	19'44 9'24 8'52 7'80 13'56 10'68 15'48 12'00 20'40 11'04	25°56 8 16 7'08 6'48 12'24 15'12 10'80 10'08 21'96 13'44	28'68 11'59' 8'64 11'28 14'16 14'16 13'89 11'16 21'60 12'36	37'20 12'84 10'18 15'60 19'92 16'68 18'12 14'28 31'08 21'12	41.76 19.92 18.48 25.20 26.16 23.28 27.7: 22.80 40.92 30.48	51 06 45 24 30 96 57 72 47 52 57 60 73 68 50 28 58 68 54 12
PATRA BHAGULFORE ORISSA CHOTA NAG-	Snahabad Mozufferpore Durbbanga Sarun Chumparun Mongbyr Bhagalpore Purneah Maidah Sonthal Pergunnahs Cuttack Poori Rainsore Hazaribagh Lohardunga	" 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,469 3,166 4,265 5,178 3,771 5,999 4,354 652 1,541 652 1,1623 1,623 1,743 1,584 1,235	484 270 552 636 462 998 453 338 1,072 449 135 59 16 38 187 154		6 1 603 27 1,295	42'48 68'16 10'92 41'52 36'60 3'84 10'20 14'64 21'72 5'28	20 88 23 56 26 64 22 44 41 28 22 92 17 16 20 52 15 60 22 20 22 80 20 52 17 04	22'08 20'88 25'44 20'52 49'82 28'92 21'84 16'56 16'32 14'76 14'88 18'68 19'08 21'12 23'76		9-96 6-84 11-88 4-32 24-72	\$63 435 706 650 554 390 359 521 618 207 134 342 495 226 377 492 479	950 654 234 182 242 248 120 1×5 252 314	244 448 674 814 687 525 825 212 85 133 176 66 94 104 143	171 137 289 361 170 381 256 191 156 64 105 109 36 78 79	128 103 129 103 161 244 138 337 155 135 144 66 116 140 72 87 77 54 123	118 210 535 596 574 719 441 816 465 441 374 141 198 203 201 204 149 307	368 567 692 422 757 390 469 386 120 207 287 272 184 174 843	521 594 347 632 463 302 841 89 115 255 195 205 199 295	296 486 575 345 465 363 273 214 75 120 264 187 167 145 270	502 538 506 720 574 681 826 306 146 220 422 265 250 278	148 08 105 24 85 56 132 84 141 36 201 12 196 56 65 64 81 12 131 40 158 16 178 32 100 10 138 84 134 88	25:50 30:96 37:92 31:80 54:60 45:12 34:08 13:48 26:04 12:72 13:08 12:60 14:16 19:08 15:72	8'88	8'04 13'44 17'04 8'52 26'04 15'00 10'80 9'84 10'44 6'96 6'72 4'80 9'00 7'08 9'72 10'44	9°60 11°52 16°32 11°16 35°56 11°40 12°60 12°24 12°24 12°24 12°24 12°80 8°52 12°72	12'00 16'68 19'92 14'62 33'84 17'88 15'72 14'40 14'52 9'96 11'52 15'24 14'88 9'84 18'26	16:08 18:48 15:84 14:28 11:76 14:28 25:92 16:56 13:20 18:36	22.92 95.32 17.28 42.24 27.12 18.96 21.73 15.84 15.24 19.08 27.84 26.52 26.76	10°44 29°40 51°72 35°76 30°36 23°76 18°24 27°36 37°92 36°48 31°44 42°48	41.76 50.76 62.64 72.00 60.98 40.80 39.48 40.56 34.20 44.88 64.32 60.60 68.88 51.24
	Manbhum TOTAL FOR THE PROVINCE.	98	695 1,508 77,225	11 71 34,826	188	241	7.92 21.72 12.0)	18°60 19°08 21°60	56.64 18.72 19.56	20.04	45.80	95 89 17,103	285 285	9,700	45 70 5,820	138	73 169 12,775	12,463 12,463	91 151 1,051	73 175	91 207 4,559	130°44 163°44 132°48	34:48	7-20	7:80	18:24		10'20	20.76	37-08	

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 30th August 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 30th August 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 19° per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted—vide the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per	26'5	22.8	20'1	21.2	8:22	22.7	19.6

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

	WERKS 1	ENDING-		,	VBBKS E	INDING-	
Towns.	9th August 1890.	28rd August 1890. 30th August 1890.	Towns.	9th August 1890.	16th August 1890.	23rd August 1890.	30th August 1890.
Burdwan Midrapore Hoghii and Chinsurah Serampore Utterpara Howrah Bali Erishnagar Rannghat Santipore Jessore Rampore Beauleah Darjiling Dacca	13.7 15.3 12.4 16.4 6.6 23.6 23.6 18.9 9.4 14.3 18.3 24.0 6.0 17.5 14.0 6.1 15.3 24.0 6.0 17.5 14.0 5.3 25.0 25.2 14.9 17.5	16'8 97'5 18'6 17'0 14'8 99'5 15'7 31'4 57'7 9'4 21'8 17'9 11'1 14'0 18'9 11'4 12'0	Narainganj	16.6 4.7 11.5 18.3 21.9 20.3 17.0 29.9 2.0 23.6 38.9 13.9 12.6	33'1 16'4 11'6 13'6 28'7 26'3 18'2 18'1 12'1 25'3 40'7 6'9 6'3	16.6 9.4 19.3 15.3 15.3 51.4 41.9 18.2 18.9 18.1 24.4 37.1 12.6	12:4 4:7 34:7 10:1 26:0 16:7 9:7 87:0 4:0 25:3 28:0 10:4

It will be seen that last week the highest birth-rate was returned from Darjiling (133.4), and the lowest from Chittagong (4.). No births were registered during the week in Ranaghat and Jessore towns.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22.9 per 1,000 of the population. The rate of the week is 10 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—vide the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum		28.5	28-2	35-2	28'9	32.9	22.9

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Hughli and Chinsurah 181 312 197 391 Comillah 94 211 164 9- Serampore 510 834 491 334 Patna City 291 153 204 16 Howrah 974 877 189 283 Gya 291 153 204 16 Howrah 200 195 178 195 Arrah 203 182 203 324 16 Howrah 105 246 281 316 Mozufferpore 231 207 255 58 Krishnstar 114 114 151 36 Durbhanga 231 207 255 198 Kanaghat 240 120 299 120 Chapts 36 231 207 255 149 441 Santipore 193 140 263 88 Bhagulpore 231 127 44 126 19 Jessore 122 184 551 184 Mozufferpore 239 151 161 11 Jessore 122 184 551 184 Mozufferpore 239 120 127 244 126 19 Jessore 122 184 551 184 Mozufferpore 249 120 299 120 Chapts 249 120 263 27 285 285 285 285 285 285 285 285 285 285			WERES-	anding-				WEEKS E	NDING-	
Midnapore 15.5 17.0 28.2 9.3 Chittagong 12.4 16.6 24.8 12.0 Hughli and Chinsurah 18.1 81.2 19.7 36.1 Comillah 7.7 23.1 16.4 9.4 Serampore 51.0 83.4 49.1 33.4 Patna City 20.1 16.3 20.4 16.7 Utterpara 9.4 87.7 18.9 28.3 Gya 20.1 16.3 20.4 16.7 Howrah 20.0 19.5 17.8 19.5 Arrah 20.3 13.2 12.0 46.7 Bali 10.5 24.6 28.1 31.6 Mozafferpore 20.3 13.2 12.0 8.5 Krishnacar 11.4 11.4 16.1 9.5 Durbhanga 34.6 27.5 14.9 44.8 Hannschat 24.0 12.0 29.9 12.0 Chapra 3.9 15.1 16.1 11.5 Jessore 12.2 18.4 55.1 18.4 Monghyr 25.9 21.7 22.4 12.6 19.9 Barpiling 66.7 66.7 66.7 37.0 44.5 Poor 24.2 13.9 24.2 <	Towns.	August	August	August		Towns.	August	August	Angust	30th August 1890.
	Midnapore Hughi and Chinsurah Serampore Utterpara Howrah Bali Krishnacar Hamaghat Santipore Jessore Bampore Beauleah Darjiling	18'5 - 18'1 - 18'1 - 9'4 - 20'0 - 10'5 - 11'4 - 24'0 - 19'3 - 12'2 - 21'0 - 66'7	17.0 81.2 85.4 87.7 19.5 24.6 11.4 12.0 14.0 18.4 84.2 66.7	23°2 19°7 49°1 18°9 17°8 28°1 15°1 29°9 26°3 55°1 26°3 37°0	9°3 36°1 33°4 28°3 19°5 31°6 9°5 12°0 8°8 18°4 21°0 44°5	Chittagong Comillah Patha City Gya Arrah Mozafferpore Durbhanga Chupra Bhagulpore Monghyr Puruseah	9'4 7'7 20'1 56'7 20'3 23'1 34'6 8'0 12'7 28'9 24'2	21'1 23'1 16'3 56'7 18'2 20'7 27'5 16'1 24'4 21'7 18'9	16'4 26'9 20'4 66'3 12'6 25'5 14'8 16'1 12'6 22'6 24'2	124 94 116 167 587 84 447 117 1196 217 207 257

It will be seen that last week the highest mortality occurred in the town of Gya (58.7) and the lowest in Arrah (8.4).

Measured by last week's mortality, the highest annual death-rates from the following registered death causes were as follows :-

	Cholera.				Fever.			Other caus	ses.		
		B	tatio per				atio per mille.		R	atio per	
Gya Durbhanga Mozufferpore Chupra Dacca Patna City		:::::::::::::::::::::::::::::::::::::::	14 3 8 6 6 1 6 0 3 2 2 3	Gya Bali Durbhanga	 	:::	26.0 24.6 20.5	Gya Poori Serampore Hughli and surah	Chin-	17.0 14.7 11.8	

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3 from cholera, against 3.7 per 1,000 in the preceding week; 1 from small-pox, against the same ratio; 9.4 from fever, against 10.5; 4.3 from bowel-complaints, against 2.7; 3 from injury, against 4; and 5.8 from other causes, against 7.4 in the preceding week.

The mortality of last week according to Sex, Class, and Age was as follows:—

According to Sex.		According t	o Class.		According to A	ge.
	Ratio per mille.			Ratio per mille.		Ratio per mille.
Males Females Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	21·9 23·7	Christians Hindus Mahomedans		37·4 24·7 18·0	Under 1 year 1 and under 5 years 5 , 10 ,, 10 ,, 15 ,, 15 ,, 20 ,, 20 ,, 30 ,, 30 ,, 40 ,, 40 ,, 50 ,, 60 years and upwards	190 6 34 7 12 2 11 3 16 7 11 8 13 4 17 0 26 8 51 4

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

> W. H. GREGG, Dip. Publ. Health, Camb., Sanitary Commissioner for Bengal.

The 15th September 1890.

	The De att . I Death in the principe	Municipalities in Bengal during the week ending with Saturday, the 30th August 1890.	
Results of the Results of the	Registration of Births and Deaths in the Pitholps	Manuelpariote in 200 gar	

1		No.	,			•			6		6				7							8				9	10		11		19
A				1			180						17(8)						MO	RTAI	ITY A	ACCOL	RDING	o To-							
		POI	PULATI	ON.			В	IRTH	8.					and the		1000		D	isease							- bre-			Set	τ,	
	NAMES OF				NUMI	RE O		or Po	PER 1 PULAT ANNU!	ION	to every			DRATI	на уво	м-			RAT	IO PRR	1,000 AN	OF POI	PULAT	ION P	NR.	a in the	DEATI	18. P	ATIO 1,000 OPULA FRAN	TION :	deaths, he proper- ity bears to and female
DISTRICTS.	MUNICIPALI- TIES.	Males.	Fornales.	Total.	Males.	Fomales.	Total.	Malos.	Females.	Total.	Ratio of male birth 100 (emale births.	Cholera.	Small-pox.	Pevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ohulers.	Small-pox.	Pevers.	Bowel-complaints.	Injury.	Other diseases.	causes.	Ratio of deaths per lation per annua vious week.	Males.	Females.	Males.	lon.	every 100 femal calculated on the first such male at the total male a population.
	related at		P. Carl		6	19	18	9.3	18:3	27.5	50			10	4		2	16			15'3	61		8.0	24-4	16'8	7	9	20.2	29.2	• 69
urdwan	Burdwan	18,063	16,017	34,080	4	12	11	6.5	10.8	17.0	57			3	9		1	6	***	1141	4'8	31		1.5	9.3	23.2	5	1	15.4	3.1	498
idnapore	Midnspore	16,927	16,633	33,560	10	8	18	16.4	13.1	29.5	125			12	3		7	2.9	2		19'7	49	***	11.2	36.1	19:7	9	13	29.2	42.7	69
lughli	rah	15,858	15,829	31,687	6	10	16	11.8	19 6	31.4	60		Carlo	8	3		6	17			15.7	5'9		11.8	33.4	49°1	7	10	26.8	40'2	66
erampore	Serampore	13,550	12,987	5,510	1		1	9'4		94	No female		19.1	1	2	7000	***	3	***	***	9.4	18-9	172	5	28.3	18:9	2	1	34'1	21:1	161
	Utterpara	1000000	2,464	90,813	12	18	80	6.9	10.3	17.2	birth.	3		10	11		10	34	1.7		5.7	6.8		5.7	19.5	17:8	21	13	20.2	18.0	113
owrah	Howrab	53,153	87,660	14,815	3	1	4	10-5	3.2	14.0	800			7	1		1	9		***	24.6	3.2	***	5.5	31.6	28'1	5	4	33.2	29.8	111
	Bali	7,836	6,979	27,477	3	3	6	5.7	5.7	11.4	100	***		3	9	32		5			5.7	8.8	•••		9.5	151	3	8	11.8	7.3	161
956 55	Krishnagar	13,263	1000	8,683				113				1		1			1	9	1		6.0	***	14.	6.0	12:0	29-9	1	1	12.9	11.5	115
Suddea	Ranaghat	4,028	4,655	1	1	3	4	1.7	5'3	7.0	33	1		4			in.	5	1.7		7:0	***			8.8	26'3		5	in.	16'3	No mi
	Santipors	13,708		The state of			1		Pas	1	444	1	1	3		***		3			18-4				18.4	55.1	1	2	10.8	28.4	38
essore	Jessore	4,830	3,665			10	16	15.8	26-2	42.0	60		-	3	1	1	3	8			7'9	2.6	2.9	7'9	21.0	26 3	6	2	29.0	11.2	252
tajshahye	Rampore Beauleal	- Circles	9,025	THE STREET		9	18	66'7	66.7	133.4	100	2801	The	1	2		3	6			7'4	14'8		22-2	44.6	37.0	4	2	45'4	42.6	108
Darjiling	Darjiling	4,579	2,439	The same	1000	10	26	10'4	6.2	16.9	160		1	8	12		5	31	3.3	1000	52	78		3'2	20-1	247	20	11	24'3	15-3	158
Daces	Dacca	42,782		80,161	16	1	3	8-3	41	19.4	200			1	3	-		3	-			12'4			125	24'8	2	1	13.7	10.2	130
	(Narsinganj	7,605		22.000	A SECTION		9	4.7		4.7	No femal	1		1	1		2	4	Haz.		2.3	2.3	1	47	9.	16'4	8	1	11.7	5.9	198
Thittagong	. Chittagong	13,340	3 3 3 3 5 5	2000	1		9	15.4	19:3	34.7	birth.	1		8		1		3			11.6	1.0		100	114	26'9	2	1	12.8	9.7	132
Cipperah	Comillah	8,153	170	+	V 5-38	12	31	6.5	8.9	5568	158	3 50		15	9	1	18	50	2.3	1000	4'9	2.9	*3	5.8	16	20'4	19	31	12'5	19.8	63
Patus	Patna City	78,769		10000		22		10-9	15.0	His E		94		88	1	1	25		14'8	2	26'0	-7	7	17.0	58	66'3	42	44	57-0	60'5	91
3ya	Gys	88,290	37,831	STATE IN	150		14	1 25-0	48	Enter	250						,	7	2.4		4.8	1		1.2	8.	12'0	6	1	14'9	2.3	647
shahabad	Arrab	20,960	22,505				29	4.8	4.8	9-7	F 30 10.	100		8	5			16	61	0 10000	3.6	6.1	1.5	2.4	19	5 25'5	8	8	18.0	21.2	8
lozufferpore .	Mozufferpore	23,084	19,655	42,742		8 6	1	1 3500	ALC: U	100000	100	133		26		138		57			LI CO	8.6	1	6.3	1	8 14.9	26	31	40'0	49.9	80
Durbhanga	Durbhanga	83,774	32,322	66,096	24	23	47	18.9	181	37-0		3	A Mile	20	STATE OF	***		11	1000		7.0			3.0	111	1 161	2	9	41	17.6	11 12
arun	Chupra	25,116	26,554	51,670			1		4.0	4.0	birth.			A ROLL	100			21	100	1	10.8	3.6			19-	1	000		22.8	15.0	15:
Bhagulpore	Bhagulpore	29,640	27,818	57,453	19	9	28	17.2	8.1	25.3	\$ 55000	3 86	13	12				WHEN IS	1876	-	2193	100	MAGE!	FOUR		7 22.6	450	1000	18'5	24'8	7
Monghyr	Monghyr	28,154	29,366	57,520	16	15	31	14.2	13'5	28.0				7	8	1	8	24		-	6.3			100	20	8 24-2	19.90	19	6.1	39-7	1
Purneah	Purneah	8,463	6,553	15,016	1	2	3	3.2	6.8	10.4	50	-		5	1		1	6	- Paris		17'3		-	3.2		450	3330	5	V.S.	13.5	d obline
Foort	Poori	13,847	11,537	24,784	229	2	5	***	4'2	4.5	No male		***	3	2		7	12	-		6.3	4.3		14.7	25.	\$ 45.0	9	3	35.5		20

						Cla	ASS.															Ag	e.		-						
DISTRICTS.	NAMES OF MUNICIPALE- TIES.		DEAT	H8 AM	ong-		RAT	IO PER								DBAT	н8.							RATIO P	BR 1,000	OF POP	ULATION	F PBB AN	NUM.		
		Christians.	Hindus.	Mahomedans,	Ruddhista.	Other classes.	Ohristians.	Hindus.	Mahomedans.	Buddhists,	Other classes.	Under 1 year,	land under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	so and under 30 years.	30 and under 40 years.	to and under 50. years.	50 and under 60 years.	60 years and up-	Cader 1 year.	land under 5 years.	5 and under 10 years.	16 and under 15 years.	15 and under 20 years.	30 and under 30 years.	30 and under 40 yours,	40 and under 50 years.	50 and under 60 years.	60 years and up-
Burdwan	Burdwan		14	2			***	30.7	10.1			1	2	2		1	1	1	1	2	5	78.8	46.1	4416		16-6	6.8	7'5	11.8		
fidnapore	Midnapore	-	5	1	***	-		10.0	7'3		***	***			833	2			2	1	1		Dr. C. C.		***		6.6	10		42.4	175.4
Iughli	Hughli and Chin-		18	- 4				37.0	33.7	***		1	2		2	1	6	9	4	2	2	64.8	46'9	***	4110	32.9	100	***	27.9	25.2	28'4
	Serampore		15	2				30.8	110.9			5	. 8	1	2	Tax I	1	9	1	2	1	366-2	57.6	2017	41'9	20.7	50°3	18.2	49-9	40.0	20.3
erampore {	Utterpara	***	3				-	29.3							1	2							91.6	20.7	46'8	***	9.7	50.9	15.4	54'3	37.4
6	Howreh	1	33	1		1.0	27'5	24'4	2.2	***		8	5	1	9	2		4	***				***	***	108'6	236.4		***			***
lowrah {	Bali		9					34'9		5.3		1	1	0								151.3	46'9	8.3	7'9	14.2	11:5	10.8	17.7	37.9	27.7
	Krishnagar			1	T TOTAL		1	11.5	6.3		***	1	1/1 9	200			ESI	ME.		***	2	143'6	52.1	97.6	1.00		15.2	18'6	26.9	•••	142'1
uddea	Ranaghat			135		**	"	14.2		***			-	-		•••		***	3	1	1	104'8	***					•••	31.9	24'7	30-1
SECTION STATE	Santipore	1000	4	1		-	1	10.0	5.8	111	200			***		***	1		411.	-"						100	34'5	41.7			
	Jessore	"				1000	""	445	1900	***	""		***		***	***	***	•••		***	3	123.1			**90			***	***		79'4
ajshabye	Rampore Beauleah	***		5			111	34.6	***	***	***		1000	***	244	1			1			268:0	***	***	***	71.0	F		49'5	***	***
	Destilles	-			***		350.3	15.7	26.5		***	8	1	1	1		***	***	1	1	***	384'2	36.7	25.0	25 9		***	***	21.3	41'9	1
	D. C.		-	1	***	***	325.0	56.6			""	1	3	***		-	1			1	***	429'8	243-6		***		26.0			213-1	
acca}	Vanatananut	***	23	8	***	***		20.7	10%			1	2	1	2	8	4	9	8	. 5	5	54'8	141	5'2	13.1	21.4	13.6	8-9	31.0	54'9	46'7
	Narainganj		2	1	***			16'4	8.4	***			2	***	***		1						91.5		•••		19.5		***		1
CONTRACTOR OF THE PARTY OF THE	Chittagong	***	2	2	***			17'9	6.8	***		1	***	***	***			2	***		1	99.4	100-1					31.2			65'3
	Comiliah		1	2	***	***	-	8.7	141	***	***	***	1		1				1				39'8		35-6	186.90	14		39.6	100	1000
	Patns City		40	10		***	***	17:5	12.7			9	11	8	3	2	7	2	2	3	8	108.6	39.2	9.3	10.8	9.3	12.6	4'5	5.2	11.0	30.1
ya	Gys	1	63	22			2,363*6	54'6	71.9			20	9	6	2	3	9	8	5	6	18	581.0	73.7	44.6	15.5	29.8	31.8	32.7	26.6	47'5	181.9
hababad	Arrah		4	3				6.7	12.6			2	. 1	1		1					2	80.7	11.7	10.1			Emera	1000	THE REAL PROPERTY.	-	1000
THE RESERVE OF THE PARTY OF	Mozufferpore	***	11	5	***	***	***	10.0	20.8			4	4	1	1	2		3		1		217'8	51.2	11.8	13.1	16.2		99-4	,,,,	300	36'1
PER	Durbhanga	***	37	20				39-7	59.2			11	8	8	4	,	5	6		9	8	387'4	54.7	100		34.3	10.8	22'4	9410	16.0	***
	Chupra	***	11	***		***	***	14'4	***	***		2	2				2	,	2	250	9	73.7	100000000	19.9	37.4	13.9	19.5	28.0	34.9	106.7	81.4
COULDED TO MINISTER	Bhagulpore	***	15	6	***	***		19.6	181			3	2	1	1	9	1		8	",		100	20'1			***	11'3	6.7	17'1	*** *	30-6
	Monghyr	2	19	3		***	437.0	22.1	12.4			13			3285	9			1			130.7	19.2	35.4	8:3	24-9	4.8	22.4	24'8	12.2	***
MINE 2010 CONTROL OF 1	Purnesh		3	3				17.0	27.6			9				2		3	15.3	-	1	455.2	33.4	- 111	***	27'5	444	17.5	8.2	***	14.9
ocri	Poori	***	12	190				25'4				9	309		***	1	1	-				367.5	-	-	**	52.3	15.8	36.2	***		
	TOTAL	- 5		200	201			1000									8	1	***	1	6	343.2		***	***	•••	19.7	12.8	•••	23.3	172'8
			360	102	***	***	37.4	24.7	18'0	***	***	93	62	26	21	26	48	45	41	40	65	190.5	34.7	12.2	11'3	16*7	11'8	13'4	17.0	26'8	51.4

Office of Sanitary Commissioner for Bengal,

The 15th September 1890,

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE. ORISSA COAST CANAL SYSTEM. LENGTH OF CANAL OPEN, 971 MILES.

Statement showing Quantities of Goods carried during the month of July 1890.

			TOTAL GOVERNMEN	AND PRIVATE.		Par	VATE.	
Number of boats or rafts,	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees,	1
175	1. Grain	1,806	256	2,062	92,285	2,062	92,285	
2	2. Cotton	7		7	4,000	7	4,000	
	3. Oilseeds		TO BE STATE OF THE		W			1
41	4. Salt	37	468	505	56,386	505	56,386	T
2	5. Piece-goods		7	7	12,000	7	12,000	T
	6. Metal					******		1
11	7. Building materials	5	72	77	271	15	101	1
560	8. Miscellaneous	272	442	. 714	72,523	704	72,450	
10	9. Fuel	31	56	87	742	87	742	
2 rafts	10. Timber	26 c. ft.		26 c. ft.	17	26 c. ft.	17	1
2 "	11. Bamboos	225 "		225 ,,	25	225 ,,	25	
001 6	12. Total	1 2,158 &	1,301 e. ft.	3,459 & 2	2,38,249	∫ 3,387 &	} 2,38,006	
801 & 4 rafts	12. Total	251 c. ft.		251 c. ft. §	2,00,010	251 c.ft.	1 2,00,000	1
740	13. Total of same month last year.	1,876	843	2,719	1,84,938	2,558	1,78,656	1
		Up.	Down.					
	国际企业	The state of the s	Down.	Total.	m. 4-1 4-11-		Rs.	
	number of boats plying					ge of month	h—	
car	rgo No.	384	417	801	24+25+	26	h— 6,153	
5. Total	rgo No. number of boats ply-	384	417	801	24+25+ Total toll	26 lage of sa	h— 6,153	
5. Total	rgo No. number of boats ply- passenger No.				24+25+	26 lage of sa	h— 6,153	
5. Total ing 6. Total	rgo No. number of boats ply- s passenger No. registered tonnage,	384 86	417 58	801 144	24+25+ Total toll	26 lage of sa	h— 6,153	
5. Total ing 6. Total car	number of boats ply- passenger No. registered tonnage,	384	417	801	24+25+ Total toll month las	26 lage of sa	h— 6,153 ime 5,184	
5. Total ing 6. Total car 7. Total	number of boats ply- passenger No. registered tonnage, registered tonnage,	384 86 4,330	417 58 4,267	801 144 8,597	24+25+ Total toll month las	26 lage of sa	h— 6,153 ime 5,184	
5. Total ing 6. Total car 7. Total	rgo No. number of boats ply- g passenger No. registered tonnage, registered tonnage, senger Tons Tons	384 86 4,330 1,049	417 58 4,267 704	801 144 8,597 1.753	24+25+ Total toll month las	26 lage of sa	h— 6,153 ime 5,184	
5. Total ing 6. Total car 7. Total pas 8. Ton-n	rgo No. number of boats ply- g passenger No. registered tonnage, registered tonnage, senger Tons senger Tons mileage	384 86 4,330 1,049 180,489	417 58 4,267 704 169,107	801 144 8,597 1.753 349,596	24+25+ Total toll month las	26 lage of sa	6,153 ame 5,184 f Tollage.	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim	rgo No. number of boats ply- g passenger No. registered tonnage, registered tonnage, senger Tons nileage nated value of cargo Rs.	384 86 4,330 1,049	417 58 4,267 704 169,107 1,29,127	801 144 8,597 1.753 349,596 2,38,207	24+25+ Total toll month las	26 lage of sa st year emorandum of	6,153 ame 5,184 f Tollage.	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 0. Numl	rgo No. number of boats ply- g passenger No. registered tonnage, registered tonnage, senger Tons nileage nated value of cargo Rs.	384 86 4,330 1,049 180,489 1,09,080	417 58 4,267 704 169,107 1,29,127 1,311	801 144 8,597 1.753 349,596	24+25+ Total toll month las Mo	age of satt year emorandum of	6,153 ame 5,184 f Tollage. Rs.	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 0. Numl 1. Rafts 2. Do.,	rgo No. number of boats ply- g passenger No. registered tonnage, registered tonnage, senger Tons nileage nated value of cargo Rs. ber of passengers No. bullahs C. ft.	384 86 4,330 1,049 180,489 1,09,080 3,773	417 58 4,267 704 169,107 1,29,127	801 144 8,597 1.753 349,596 2,38,207 5,084	24+25+ Total toll month las Mo 1. Balance on the	age of satt year emorandum of not recove 1st of the mo	6,153 ame 5,184 f Tollage. Rs. 4,873	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 0. Numl 1. Rafts 2. Do., 3. Estim	rgo No. number of boats ply- g passenger No. registered tonnage, registered tonnage, senger Tons nileage nated value of cargo Rs. ber of passengers No. bullahs nated value of rafts Rs.	384 86 4,330 1,049 180,489 1,09,080 3,773 225 26 42	417 58 4,267 704 169,107 1,29,127 1,311	801 144 8,597 1.753 349,596 2,38,207 5,084 225	24+25+ Total toll month las Mo	age of satt year emorandum of not recove 1st of the mo	6,153 ame 5,184 f Tollage. Rs.	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 0. Numl 1. Rafts 2. Do., 3. Estim 4. Tolla	rgo No. number of boats ply- g passenger No. registered tonnage, r	384 86 4,330 1,049 180,489 1,09,080 3,773 225 26	417 58 4,267 704 169,107 1,29,127 1,311	801 144 8,597 1.753 349,596 2,38,207 5,084 225 26	24+25+ Total toll month las Mo 1. Balance on the	age of satt year emorandum of not recove 1st of the mo	f Tollage. Rs. 4,873 6,153	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 0. Numl 1. Rafts 2. Do., 3. Estim 4. Tolla, 5. Comp	rgo No. number of boats ply- g passenger No. registered tonnage, r	384 86 4,330 1,049 180,489 1,09,080 3,773 225 26 42 3,180-7-0	417 58 4,267 704 169,107 1,29,127 1,311 	801 144 8,597 1.753 349,596 2,38,207 5,084 225 26 42 6,146-8-3	24+25+ Total toll month las Mo 1. Balance on the 2. Tollage	age of satt year emorandum of not recove 1st of the many per month	6,153 ame 5,184 f Tollage. Rs. 4,873	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 0. Numl 1. Rafts 2. Do., 3. Estim 4. Tolla 5. Comp	rgo No. number of boats ply- g passenger No. registered tonnage, r	384 86 4,330 1,049 180,489 1,09,080 3,773 225 26 42 3,180-7-0 5-0-0	417 58 4,267 704 169,107 1,29,127 1,311 2,966-1-3	801 144 8,597 1.753 349,596 2,38,207 5,084 225 26 42 6,146-8-3 5-0-0	24+25+ Total toll month las Mo 1. Balance on the 2. Tollage	age of satt year emorandum of not recove 1st of the many per month Total	f Tollage. Rs. 4,873 6,153	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 0. Numl 1. Rafts 2. Do., 3. Estim 4. Tolla, box 6. Tolla,	rgo No. number of boats ply- g passenger No. registered tonnage, r	384 86 4,330 1,049 180,489 1,09,080 3,773 225 26 42 3,180-7-0	417 58 4,267 704 169,107 1,29,127 1,311 2,966-1-3	801 144 8,597 1.753 349,596 2,38,207 5,084 225 26 42 6,146-8-3	24+25+ Total toll month las Mo 1. Balance on the 2. Tollage 3. 4. Amount treasur	age of satt year emorandum of not recove 1st of the me per month Total paid i	6,153 ame 6,153 f Tollage. Rs. 4,873 6,153 11,026	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 0. Numl 1. Rafts 2. Do., 3. Estim 4. Tolla 5. Comp bo 6. Tolla 7. Total	rgo No. number of boats ply- rgassenger No. registered tonnage, re	384 86 4,330 1,049 180,489 1,09,080 3,773 225 26 42 3,180-7-0 5-0-0	417 58 4,267 704 169,107 1,29,127 1,311 2,966-1-3	801 144 8,597 1.753 349,596 2,38,207 5,084 225 26 42 6,146-8-3 5-0-0 2-1-0	1. Balance on the 2. Tollage 3.	age of satt year emorandum of not recove 1st of the me per month Total paid i	f Tollage. Rs. 4,873 6,153 11,026	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 10. Numl 11. Rafts 12. Do., 13. Estin 14. Tolla 15. Comp box 16. Total 17. Total 18. Total 19. Total 19. Total 19. Total 19. Total	rgo No. number of boats ply- rgassenger No. registered tonnage, re	384 86 4,330 1,049 180,489 1,09,080 3,773 225 26 42 3,180-7-0 5-0-0	417 58 4,267 704 169,107 1,29,127 1,311 2,966-1-3	801 144 8,597 1.753 349,596 2,38,207 5,084 225 26 42 6,146-8-3 5-0-0	1. Balance on the 2. Tollage 3. 4. Amount treasur month	age of satt year morandum of the morandum of	f Tollage. Rs. 4,873 6,153 11,026 into the 5,705	1
5. Total ing 6. Total car 7. Total pas 8. Ton-n 9 Estim 10. Numl 11. Rafts 12. Do., 13. Estim 14. Tolla 15. Comp box 16. Total 17. Total 18. Total 18. Total	rgo No. number of boats ply- rgassenger No. registered tonnage, re	384 86 4,330 1,049 180,489 1,09,080 3,773 225 26 42 3,180-7-0 5-0-0 1-15-0	417 58 4,267 704 169,107 1,29,127 1,311 2,966-1-3	801 144 8,597 1.753 349,596 2,38,207 5,084 225 26 42 6,146-8-3 5-0-0 2-1-0	1. Balance on the 2. Tollage 3. 4. Amount treasur month	age of satt year morandum of the morandum of	f Tollage. Rs. 4,873 6,153 11,026 into the 5,705	1

Abstract for the month of July 1890 as compared with the corresponding month of the previous year.

		1890-91.	188	19-90.
	During the mo	onth. To end of the month.	During the month.	To end of the month
	Rs. A.	P. Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	6,153	3 23,649 9 3	5,184 10 3	20,546 9

CALCUTTA,
The 15th September 1890.

G. A. G. Shawe, Under-Secy. to the Govt. of Bengal

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 13th September 1890, as compared with the corresponding week of the previous year.

				DING SATURE I SEPTEMBER		WEEK EN	OING SATURD SEPTEMBER 1	AY, THE 889.
NATURE	OF CARGO.		Number of boats.	Weight of cargo,	Tollage.	Number of boats.	Weight of cargo.	Tollage,
			No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy Jute Firewood Other articles	=	. ::	400 163 142 913	80,025 58,510 64,575 2,29,125	1,439 1,049 1,020 3,076	361 141 191 1,007	73,825 49,175 84,435 2,15,850	1,18 1,24 1,34 3,15
	Total		1,618	4,32,235	6,584	1,700	4,23,285	6,93

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 1,5251 miles open.

	COACHIN	G TRAFFIC.	MERCHANDISE TRAI	AND MINERAL	Otherearnings		TRAFFIC	TRAIN-MIL	S RUN.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Total earnings,	Coaching.	Merchan- dise.	Total.
MANUAL VICTOR	7:00	Rs. A. P.	MDs. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.		3,002,00	
Octal traffic for the week or per mile of railway for previous 3 weeks of half-	* 220,548	* 3,22,394 6 0 145 12 7	19,72,576 30	14,30,372 14 0 282 1 11	15,391 14 0 10 1 5	6,68,159 2 0 437 15 11	65,090}	68,347	133,437
For previous 8 weeks of balf-	1,947,995	19,56,234 9 0	1,60,07,400 20	35,63,606 10 0	1,46,712 5 11	56,66,553 8 10	569,703	665,6532	1,235,557
Total for 10 weeks COMPARISON.	2,168,543	21,78,628 15 0	(1,79,80,277 10	39,93,979 8 0	1,62,104 3 10	63,34,719 10 10	634,794}	734,0002	1,368,795
Total for corresponding week of previous year Per mile of railway correspond-	232,127}	2,59,852 2 5	20,56,853 10	4,23,220 0 0	15,579 15 7	0,98,052 2 0	66,568	77,089	143,657
ing week of previous year Fotal to corresponding date of previous year	2,380,596	169 15 1 23,83,594 3 3	2,12,05,583 10	277 6 11 44,26,590 14 1	10 3 5	457 9 5 69,24,951 6 7	650,473	819,325	1,469,798

^{*} The decrease in ceaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic for Gya on account of "Aparpucksha."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

	RECEIPTS FOR WEEK ENDING OUR SEPTEMBER 1890.					Д	RECEIPTS FRO PRIL 1889 TO 71 EPTEMBER 1889	H	Λ	L RECEIPTS FRO PRIL 1890 TO 6: SEPTEMBER 189	LH	Total	Total decrease in
Mean m:leage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mesn mileage worked.		Per mile worked per week.	increase in 1890.	18001
1,625}	Ru. 6,98,052	Rs.	1,625}	Rs. 6,68,159	Rs.	1,525}	Rs. 1,89,51,703	Ra. 540	1,525}	Rs. 1,74,53,643	Rs.	Rs.	Rs. 14,98,650

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 57; miles open.

	COACHING	TRAPPIC.	MERCHANDISE TRAF	PIC	Other earnings	(Para Laurana na	TRAFFIC '	PRAIN-MILE	BUK
	Number of passencers,	Receipts.	Weight carried.	Receipts.	(estimated).	Total earlings.	Coaching.	Merchan- dise.	Total,
		Rs. A. P.	MDs. 6.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week Or per mile of railway	*9,296 1621	*4,532 14 0 79 4 0	12,573 0 220 0	946 8 0 16 8 9	42 6 0 0 11 10	5,521 12 0 96 8 7	1,057	539	1,596
For previous 9 weeks of half-	184,506	+42,970 12 0	8,02,525 10	±18,257 3 0	§392 0 0	61,619 15 0	8,712	5,336	14,048
Total for 10 weeks	93,803	47,503 10 0	3,15,098 10	19,203 11 0	434 6 0	67,141 11 0	9.769	5,875	15,644
COMPARISON.									
Total for corresponding week of previous year	20,604	12,476 14 10	25,676 0	1,581 14 0	42 5 0	14,101 1 le	2,034	542	2,576
Per mile of railway correspond- ing week of previous year	360	218 2 0	449 0	27 10 6	0 11 10	246 8 4			
Total to corresponding date of previous year	116,489	61,843 1 4	5,23,536 30	23,961 15 0	410 11 9	86,215 12 1	11,342	7,484	18,826

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, duted 23rd July 1883.

			TS POR WEEK		Δ	L RECEIPTS PRO PRIL 1889 TO 71 SEPTEMBER 1886	н	A	RECEIPTS PROPRIE 1890 TO 6 SEPTEMBER 1890	TH	Total	Total	
Mean uileage vorked.	Receipts.	Per mile worked.	Mean nileage worked.	Receipts.		Mean mileage worked.	Total receipts.		Mean mileage worked.		Per mile worked per week,	increase in 1890.	decrease in 1890.
	Rs.	Rs.	57).	Rs.	Rs.	574	Re. 2,00,212	Rs. 152	571	Rs.	Rs.	Rs.	Rs. 6,326

^{*} Added Rs. 1,384 on account of difference between the approximate and audited figures to week ended 2nd August 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 221 miles open.

The property of	COACHING	TRAPPIC.	MERCHANDISH . TRAFF		Other earnings	Total	TRAFFIC	TRAIN-MIL	es Run.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	earnings.	Coaching.	Merchan- dise.	Total,
22 Landson Art State		Rs. a. P.	MDS. S.	Rs. A. P.	Rs. A. F.	Rs. A. P.	-		
Total traffic for the week Or per inite of railway For previous 9 weeks of half-	17,322	4,287 4 0 192 11 0	6,260 10	207 3 0 9 5 0	7 0 0 0 0 5 0	4,501 7 0 202 5 0	924	44	968
year	151,932	*37,140 10 0	139,467 30	+1,827 13 0	253 14 0	39,022 5 0	8,000	426	8,426
Total for 10 weeks COMPARISON,	169,254	41,497 14 0	45,723 0	2,085 0 0	60 14 0	43,523 12 0	8,924	470	0,503
Total for corresponding week of previous year Per mile of railway correspond- ing week of previous year	14,847	3,426 5 8 153 15 11	5,724 30	184 15 0 8 5 0	1 0 0 0 8	8,612 4 8 102 5 7	915	81	996
Total to corresponding date of previous year	171,545%	41,536 8 9	50,263 0	1,723 12 0	41 6 3	43,306 11 0	9,256	408	9,664

^{*} Deducted No. of passengers 2,234 and Rs. 505 † Ditto Mds. 75 and added polymer of differences between the approximate and audited returns to week ended 2nd August 1890.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Висигет 7ти	s por wher September	ENDING 1889.		es por were September		A	RECEIPTS FRO PRIL 1889 TO 7. SEPTEMBER 1880	rn	1 1	L RECEIPTS FRO PRIL 1890 TO 6 SEPTEMBER 1896	TH	Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked.		Per mile worked per week,	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease is
	Re.	Ra.		Re.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
221	8,613	162	221	4,501	202	221	1,25,944	246	221	*1,28,871	251	2,427	******

^{*} Deducted Rs. 894 on account of difference between the approximate and andited figures to week ended 2nd August 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.) Approximate Return of Traffic for week ended 30th August 1890, on 767 miles open.

	COACHING	TRAFFIC.		FAND MINERAL	Other earnings (estimated),	Total	TRAFFIC	TRAIN-MILE	S RUN.
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	including steam-boat.	earnings.	Coaching.	Merchan- dise.	Total.
		Rs. A. P.	MDs. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
rotal traffic for the week or per mile of railway	118,220 154	51,380 0 0 67 0 0	7,61,880 0 993 0	1,93,330 0 0 252 0 0	19,300 0 0 *8 0 0	2,64,610 0 0 327 0 0	22,884	87,562 	60,44
year	1,136,810	4,52,550 0 0	40,64,650 0	9,60,830 0 0	1,07,090 0 0	15,20,470 0 0	176,290	253,154	429,44
Total for 9 weeks COMPARISON.	1,255,030	5,03,930 0 0	48,26,530 0	11,54,160 0 0	1,26,390 0 0	17,84,480 0 0	199,174	290,716	489,89
total for corresponding week of previous year	114,885	52,760 0 0	7,04,072 0	1,87,860 0 0	8,975 0 0	2,49,604 0 0 326 0 0	22,267	35,352	57,61
ing period of previous year lotal to corresponding date of previous year	1,213,774	71 0 0 4,95,336 0 0	942 0 50,14,693 0	251 0 0 11,39,364 0 0	1,16,435 0 0	17,51,135 0 0		253,932	456,2

^{*} Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipt 31	rs FOR WEEK	ENDING	RECEIPT 30TH	S FOR WEEK AUGUST 189	ENDING		RECRIPTS FROM THE LANGUET 1889.		A	RECEIPTS FROM 1890 TO 30 AUGUST 1890.		Total increase in	Total decrease in
Mean ileage prked.	Receipts.		Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts,		Mean mileage worked.	Total receipts.	Per mile worked.	1890.	1890.
	Rs.	Rs.		Ra.	Re.	No.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,49,604	384	767	2,64,010	344	703	38,86,577	251	761	*41,03,095	245	2,16,518	

^{*} Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 125 miles open.

	COACHING	TRAFFIC	2.		MERCHAND	AND MIN	Other					TRAFFIC	TRAFFIC TRAIN-MILES BUN.				
	Number of passengers.	Coachi			Weight carried.		Receip	ts.		Other ear festimate		earnin			Coaching.	Merchan- dise.	Total,
		Rs.	A. 1	2.	MDs.	8.	Rs.	۸.	P.	Rs.	A. P.	Rs.	۸.	P,			
al traffic for the week per mile of railway previous S weeks of half-	22,080 177	7,360 59		0	43,980 352		4,260			370 3	0 0 0 0	11,990 16		0	8,610	2,068	5,67
het " " " " "	213,442	70,230	0	0	8,01,000	0	21,310	0	0	1,460	0 0	93,000	0	0	27,880	15,890	43,75
Total for 9 weeks	235,522	77,590	0	0	3,41,980	0	25,570	0	0	1,830	0 0	1,04,990	0	0	31,470	17,958	49,42
al for corresponding week of previous year	23,862	7,609			74,222		7,249			43	0 0	14,901	0	0	3,400	2,485	5,98
ag period of previous year	187	61	0	0	594	0	58	0	0	******	XII)	119	0	0	******		•••••
ravious year	214,655	78,682	0	0	4,57,399	0	87,963	0	0	1,590	0 0	1,18,135	.0	0	81,169	20,903	52,07

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

CEIPT 31	TS FOR WEEK	ENDING		rs FOR WEEK A AUGUST 18			L BECRIPTS PRO 1889 TO SIST A 1889.	M 1AT UGUST	Total	Total			
ean Paga Med.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week,	Mean mileage worked.		Per mile worked per week.	increase in 1890.	decrease in
99	Rs. 14,901	Rs. 119	125	Rs. 11,990	Rs. 96	125	Rs. 2,07,982	Rs.	125	Rs.	Ra. 99	Rs.	Rs. 26,082

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 86 miles open.

	COACHING	TRAFFI	MERCHANI	AND MINI	Other car	nings	Tota	1	TRAPPIC	TRAIN-MILE	S BUN,			
	Number of passengers.			Weight carried.			Receipts.		ed).	earnin	gs.	Coaching.	Merchan- dise,	Total,
		Rs.	A. T.	Mps	8.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.			
Total traffic for the week Or per mile of railway	15,880 184	4,880 57	0 0		0 0	1,990 15		70	0 0	6,240 73	0 0	2,414	690	3,16
For previous 8 weeks of half-	112,720	36,540	0 (96,610	0	9,260	0 0	1,020	0 0	46,820	0 0	19,656	5,322	23,97
Total for 9 weeks Comparison.	128,600	41,420	0 (1,12,64	0	10,550	0 0	1,090	0 0	53,060	0 0	21,070	6,012	27,68
Total for corresponding week of previous year	15,922	4,697		CONTRACTOR OF STREET	E38	1,774				the state of	0 0	The Land of the	961	3,1
period of previous year	185 180,438	39,070	0 (0 0	8,221	0 0	The state of the state of	0 0	40,279		S oronada	6,707	28,8

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

	EIFTS FOR WERK ENDING SIST AUGUST 1889. RECEIPTS FOR WERK ENDING						RECEIPTS FRO PRIL 1889 TO 3 AUGUST 1889.	isr		L RECEIPTS FRO PRIL 1890 TO 300 AUGUST 1890.	Total	Total	
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean milenge worked.	Total receipts,	Per mile worked per week,	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	1890.
	Rs.	R8.		Rs.	Rs.		Rs.	Rs.		Re,	Rs.	Rs.	Rs.
86	6,895	80	86	6,240	73	86	1,23,558	65	88	*1,34,8e2	71	11,246	

[·] Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY. Approximate Return of Traffic for week ended 30th August 1890, on 271 miles open.

MERCHANDISE AND MINERAL TRAFFIC. COACHING TRAFFIC. TRAPPIC TRAIN-MILES Total earnings. Weight carried. Receipts. Coaching.

Merchan-dise. Mps. s. Rs. A. P. Total traffic for the week Or per mile of railway For previous 8 weeks of half-year ... 2,670 98 8 0 0 20 0 0 1,150 0 0 580 170 25,830 9,280 0 0 77,670 0 4,160 0 0 90 0 0 13,480 0 0 4,358 2,483 Total for 9 weeks 28,500 10,140 0 0 82,270 0 4,380 0 0 110 0 6 14,630 0 0 2,658 COMPARISON. 18,765 0 930 0 0 2,529 21 0 0 1,847 0 0 395 33 505 0 34 0 0 1 0 0 93 63 0 0 5,124 508 0 0 15,862 0 0 3,104

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

	S POR WEEK AUGUST 188			B FOR WHER H AUGUST 1		TOTAL	TRIL 1889 TO S' AUGUST 1889.	M IST	TOTAL	AUGUST 1890.	M lsr	Total	T
Menn mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked,	Total receipts.	Per mile worked per week,	Mean mileage worked.		Per mile worked per week.	increase in 1890.	decres 189
274	Ra, 1,847	Rs.	¥7≩	Rs. 1,150	Ra.	271	Ra. 41,441	Rs.	271	Ra. *40,638	Rs. 68	Řs.	



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, SEPTEMBER 24, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
LIBERALITY of Syed Mahomed Mehdi Hassain Khan, alias Badshah Nawab of Patna City	1911	RESULTS of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 14th to 20th September 1880	
Revised Prospectus of the Forest Service Branch of Cooper's Hill College	1912	Results of the Meteorological Observations taken at the Alipore Observatory from 14th to 20th September 1890	1941
All Barron Operations	1917	Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with	100
Rainfall, Weather, and State and Prospects of the Crops Prices-current (retail) of Food-grains, Firewood and	1924		1942
Salt in the Head-quarter Station Bazars of the districts	1928 (1946
Meteorological Report of the Province of Bengal for the	1934		1958
Statement of Rainfall in Bengal for the week ending	1936		1959 1959

LIBERALITY OF SYED MAHOMED MEHDI HASSAIN KHAN, ALIAS BADSHAH NAWAB, OF PATNA CITY.

GENERAL DEPARTMENT-EDUCATION.

Calcutta, the 17th September, 1890.

RESOLUTION.

READ-

A letter from the Commissioner of Patna, No. 499G, dated the 13th August last, and one from the Director of Public Instruction, No. 5038, dated the 5th September, 1890, regarding the offer of Syed Mahomed Mehdi Hassain Khan, alias Badshah Nawab, of Patna City, to found a scholarship and two prizes.

Syed Mahomed Mehdi Hassain Khan, alias Badshah Nawab, of Patna City, has offered to make over Government securities, of the nominal value of Rs. 2,000, to found a scholarship of Rs. 5 a month and two prizes of Rs. 10 each for award to Behari Mahomedan students of the Anglo-Arabic School in Patna in commemoration of the late visit of the Lieutenant-Governor to that school. The Lieutenant-Governor is pleased to accept the offer and tenders his thanks to the donor for his liberality. In accordance with the donor's wishes the scholarship and prizes will be designated "Badshah Nawab Bayley Scholarship and Prize," and the Collector of Patna is appointed to be the administrator of the fund

ORDER.—Ordered that a copy of this Resolution be forwarded to the Commissioner of Patna for information and for communication to the donor, and to the Director of Public Instruction for information.

Ordered also that a copy of this Resolution be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

REVISED PROSPECTUS OF THE FOREST SERVICE BRANCH OF COOPER'S HILL COLLEGE.

Circular No. 12-F.

Extract from the Proceedings of the Government of India, in the Revenue and Agricultural Department (Forests)—dated Simla, the 26th August, 1890.

Read the following Despatch from Her Majesty's Secretary of State for India, forwarding, with remarks, the revised "Prospectus of the Forest Service Branch of the Royal Indian Engineering College, Cooper's Hill":—

No. 40 (Revenue), dated London, 12th June, 1890.

From—Her Majesty's Secretary of State for India, To—The Governor-General of India in Council.

I forward 25 copies of the revised Prospectus of the Indian Forest Service Examination, which has been issued here. The alteration in the schedule of subjects for the entrance examination will take effect at and from the examination of 1891. But the extension of the Cooper's Hill Forest Course from two to three years will take effect with the candidates entering Cooper's Hill College in the autumn of 1890. Therefore the probationers of this year will not reach India until 1893, and no recruits will be sent out for the Forest Service in 1892.

2. With reference to article 16 of the Prospectus, I shall, when sending you lists of the recruits starting in 1893 and in subsequent years, inform your Government which of the probationers have been found qualified for the higher initial salary of Rs. 350 a month.

PROSPECTUS OF THE FOREST SERVICE BRANCH OF THE ROYAL INDIAN ENGINEERING COLLEGE, COOPER'S HILL.

(Post Town, Staines. Railway Station, Egham. Telegraph Station, Englefield Green.)

STAFF OF THE COLLEGE.*

President—General Sir Alexander Taylor, G.C.B., R.E. Secretary—J. G. Whiffin, Esq., Paymaster-in-Chief, R.N., Retired. Bursar—J. P. Pasco, Esq., R.N., Retired. Chaplain—Rev. C. Croslegh, D.D.

Engineering Branch.

Assistant Professor of Engineering—A. H. Heath, Esq., Assoc. Mem. Inst. C. E. Professor of Surveying—Major-General E. H. Courtney, R. E. Instructor in Geometrical Drawing—T. H. Eagles, Esq., M.A., Assoc. Inst. C.E., F.R.I.B.A.

Lecturer in Accounts—J. C. Hurst, Esq. Instructor in Freehand Drawing—Russell Dowson, Esq.

Mathematical Branch.

Professor of Mathematics-G. M. Minchin, Esq., M.A.

Natural Science Branch.

Professor of Chemistry—Herbert McLeod, Esq., F.R.S.
Professor of Physics—W. N. Stocker, Esq., M.A., Fellow of Brasenose College, Oxon.
Lecturer in Geology and Mineralogy—Professor P. M. Duncan, M.B., F.R.S.

Forestry Branch.

Frincipal Professor of Forestry - W. Schlich, Esq., Ph.D., F.L.S., late Inspector-General of Forests to the Government of India.

An Assistant Professor of Forestry.

Professor of Botany—H. Marshall Ward, Esq., M.A., F.R.S., F.L.S., Fellow of Christ's College, Cambridge.

^{*} The Staff of the College is only given in so far as it concerns the Forest Service Branch.

Lecturer on Entomology-W. F. H. Blandford, Esq., M.A., Fellow of Christ's College, Lecturer on Chemistry of Soils and Vegetation-A. H. Church, Esq., M.A., F.R.S. Instructor in German-T. H. Dittel, Esq.

Director of Practical Study in Forestry on the Continent—Sir Dietrich Brandis, K.C.I.E., Ph.D., F.R.S., late Inspector-General of Forests to the Government of

(The arrangements hereinafter described are subject to revision under the orders of the Secretary of State for India.)

The Royal Indian Engineering College is primarily maintained, under the orders of the Secretary of State for India in Council, for the education of candidates for the service of Government in the India Public Works, Telegraph, and Forest Departments; but it is open, to the extent of the accommodation available, to all persons desirous of following the course of study pursued in it.

INDIA FOREST DEPARTMENT APPOINTMENTS.

The examination usually takes place in June of each year.

3. The number of candidates to be selected annually varies according to the requirements of the Forest Service in India: the figures as regards each particular year will be advertised from time to time. In 1891 there will be 12 appointments offered for com-

petition.
4. Candidates for the Indian Forest Department are selected under the following

arrangements:-

(a) An applicant must be a natural-born British subject, and must be above 17 and under 20 years of age on the 1st June of the year in which he competes for an appointment. He must be unmarried, and if he marries before reaching

India he will forfeit his appointment.

(b) An applicant must send to the Revenue Department of the India Office, on or before the 1st day of May of the year in which he proposes to compete

(1) His name and parentage, a certificate or other satisfactory evidence of the date of his birth, and the written consent of parent or guardian that

his name should be recorded as a candidate.

(2) A statement of the places of education at which he may have been

since he was nine years old, accompanied by testimonials of good conduct during the last four years.

(c) Applicants will have to appear before a Medical Board; at the India Office, particular stress being laid upon good vision and hearing. A physical test will also be imposed, so as to ensure the selection of persons of active habits and powers of endurance.

(d) The applicants who have successfully passed the medical examination and the physical test will be required to undergo an examination before the Civil Service Commissioners in the following subjects (Classes I to III), marks being assigned as follows:-

CLASS I .- OBLIGATORY SUBJECTS.

		Marks.	
1	Mathematics (lower), viz., Algebra up to and including the Binomial Theorem; the theory and the use of Logarithms; Euclid, Books I to IV and VI; Plane		In each of these subjects a can-
	Trigonometry up to and including the solution of Tri-		didate must obtain not less
	angles; and Mensuration	2,500	
2.	English composition	1,000	in order to qualify.
3.	German (400 for colloquial)	2,000	

* Sir D. Brandis is not on the Staff of the College.

† There is no form of application; the documents specified in clauses (1) and (2) should be enclosed in a covering letter addressed to the Secretary, Revenue Department, India Office, London.

‡ With a view to prevent parents and guardians from incurring the inconvenience and expense of preparing candidates who may be physically unfit for the Forest Service, it is suggested that, before any such preparation is begun, candidates be submitted to examination by the medical adviser of the family, or any other qualified medical practitioner, with regard to the following points:—

1. A weak constitution.

2. Defective vision.

3. Impaired hearing.

4. The existence of any congenital defect.

It is to be understood that this private examination is merely suggested to lessen the chances of disappointment, and that it is by no means intended to take the place of, or to influence in any way, the official examination.

On the subject of the standard of eyesight required for the Indian Services, a pamphlet has been published, under the authority of the Secretary of State in Council, by Messrs. Churchill and Sons, 11, New Burlington Street.

§ A fee of 4l. is required, which can be paid by means of a stamp of that amount. Instructions on this point will be issued to candidates the day before the examination.

	CLASS II OPTIONAL SUBJECTS.	STORES	
		Marks.	
4.	Mathematics (higher), including Analytical Geometry, Conic Sections, Differential Calculus, Statics, and	2,000	
	Dynamics	2,000	
5.	French (400 for colloquial)	2,000	
6.	Latin	2,000	
7.	Greek	2,000	
8.	English History. There will be set: one general paper; one paper limited to a fixed period, of which due notice will be given	2,000	
9.	Botany, viz., the elementary parts of vegetable morpho-	1000	
10 10 41	logy, histology, and physiology, and the principles of		A candidate may take any two.
	a natural system of classification as illustrated by the	}	but not more than two, of the
	more important British natural orders. Candidates	Part Coats	optional subjects.
	will be required to describe plants in technical lan-	SEASON S	
	guage. Questions will not be set on vegetable palæ-		
	ontology or on the geographical distribution of plants	2,000	震声 超過 经现代 经收益 医皮肤 医红色 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基
10.	Chemistry, viz., the elements of Inorganic Chemistry	2,000	THE STREET OF STREET,
3 12 3 12 12 12 12	Physics: elementary properties of Electricity, Mag-		
11.		2,000	
-0	netism, Heat, Light, and Sound	2,000	A DESCRIPTION OF THE PERSON OF
12.	Physical Geography and Geology, chiefly economic;		THE RESERVE OF THE PARTY OF THE
	including the recognition of the more familiar minerals	2,000	
	and rocks, and their properties and uses	2,000	
	CLASS III.—ADDITIONAL SUBJECTS.		
	TO BE STORY OF THE	10000	Either or both of these sub-
13.	Freehand Drawing	500	jects may be taken in addition
14.	Geometrical Drawing	300 1	to the obligatory and the two
14.	Geometricat Pranting	Section 1	optional subjects.
1000			THE WAS THE REAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PARTY OF THE PA

- (e) From the competitors who attain the abovementioned minima of marks in obligatory subjects and satisfy the requisite conditions in other respects, the Secretary of State will select candidates, in order of merit, as probationers to enter the college, where they will be further trained for the Forest Service of India.
- (f) If the full number of competent probationers required in any year cannot be obtained from the persons so examined, the Secretary of State reserves a discretion to fill up the deficiency by selecting any other person or persons who may satisfy the authorities of the College that he or they are properly qualified to become probationers for the Forest Service.
- The course of study for candidates for the India Forest Service extends over about 34 months divided into nine terms. During the first eight terms the candidates will prosecute their studies at the College, and during the remaining term they will be instructed, under suitable supervision, in such British or Continental forests as may be selected for the purpose. Excursions will also be made for purposes of instruction, both during term time and during part of the vacations. The cost of all such tours or excursions is borne by the Secretary of State (see paragraph 9).

6. Each annual session begins in September, and is divided into three terms, with vacations of about four weeks at Christmas, two weeks at Easter, and eight weeks in the

summer. 7. A charge of 611. for each of the first eight terms and 601, for the ninth term is made for each student: the amount must be paid terminally in advance to the Bank of England. Receivable orders, with full directions as to the mode of payment, will be forwarded from the India Office to the parents or guardians shortly before the fees fall due. A student will not be allowed to come into residence until his fee has been paid.

8. A deposit of 5% is required to be paid by each student on admission to the College as caution money, to cover charges incurred by him for damage to books, instruments, &c., or any College bills outstanding on leaving the College. Any balance over and above such charges will be repaid. This deposit is to be paid with the fee for the first term, making the

total payment on that occasion 661.

9. The foregoing payments cover all charges for tuition, board according to the College tariff, lodging with washing and ordinary medical attendance while in residence at the College. When students are on tour and during the course of practical instruction, whether in Great Britain or on the Continent, the Secretary of State will defray the expenses. of (1) board, lodging, and washing (the maximum expenditure on such account being 10. per diem), (2) travelling expenses, and (3) fees to local Forest Officers, &c

Students are required to provide their own class books and drawing instruments. Draw-

ing paper, drawing boards, and surveying instruments are provided by the College. 10. The prescribed course of study at present comprises the following subjects:

I .- Engineering.

1. Geometrical Drawing.

2. Freehand Drawing.

3. Surveying.

4. Road-construction.

II .- Natural Science.

1. Inorganic Chemistry.

2. Chemistry of Soils and Vegetation.

Geology and Mineralogy.
 Entomology.

3. Physics.

6. Botany.

III. - Forestry, theoretical and practical.

IV .- Miscellaneous.

1. German.

3. Accounts.

2. Elements of Law.

4. Drill and gymnastics

11. Every student is required to conform to the College rules, to exhibit due diligence in his studies throughout the course, and to give evidence of satisfactory progress in such manner as may be required: failing which, or in the evident of serious misconduct, he will be liable to be removed from the College.

12. During the course of study the proficiency of the students will be tested by periodi-

cal examinations, and on the termination of their studies there will be a final examination. Each student may also, at the discretion of the Secretary of State for India, be required to appear before the Medical Board at the expiration of the first year of residence at the College, and should the result be unsatisfactory he cannot claim to be allowed to complete

the course.

13. The subjects enumerated in paragraph 10 are grouped in certain main branches of study, and a fixed minimum of qualification is required in each branch, as well as a certain minimum for all branches taken together. Students who obtain these minima will receive the College diploma in Forestry.

14. Candidates who have obtained this diploma, and are found to be of sound constitution and free from physical defects which would reader them unsuitable for employment in the Forest Department (the final decision on which points will rest with the Secretary of State for India), will be appointed Assistant Conservators in the Forest Department of India in the order of their standing at the end of the final examination. They will be allowed, before leaving the College, to choose the provinces in which they desire to be first employed, according to the standing in which they pass out of the College. But this choice can only be exercised according to the available vacancies in the different provinces, and on the understanding that officers are at all times liable to be transferred from one province to another at the pressure of the Government of India.

15. Within a month of his nomination as Assistant Conservator, each nominee must sign Articles of Agreement describing the terms and conditions of his appointment. He must embark for India when required to do so by the Secretary of State, and will be provided with a free passage. Failure to embark at the stated time will, in the absence of satisfactory

explanation, lead to forfeiture of appointment.

16. The pay of an Assistant Conservator of Forests will commence from the date of arrival in India, Probationers who acquit themselves creditably during their course at arrival in India, Probationers who acquit themselves creditably during their course at Cooper's Hill College will begin on a salary of Rs 350 a month; those who fall short of the required standard, though they may have obtained the College diploma in Forestry, will begin on Rs. 250 a month; and this difference of salary will continue until the first Departmental Examination is passed in India. It will rest with the President of the College, in consultation with the Principal Professor of Forestry, to decide which probationers, if any, have failed to qualify for the higher initial salary.

17. Promotion, leave, and pension will be regulated by the rules of the service for the time being. Further information on this point can be obtained from the Revenue Secretary, India Office, London.

18. Every candidate, before proceeding to India, will be required to furnish to the President of the College satisfactory evidence of his competency in riding.

President of the College satisfactory evidence of his competency in riding.

General Rules.

19. Chemical, physical, and botanical laboratories, a forestry museum, a forest nursery, a library, and gymnasium are attached to the College. Means are also provided for the practice of photography. Students making use of the laboratories are supplied with the needful apparatus.

20. The responsibility for the discipline and management of the College and for the

superintendence of the studies is vested in the President, under the control of the Secretary

21. The students are distributed in divisions, under personal charge of one of the Professors or Instructors selected by the President; such tutor being responsible for exercising the proper degree of personal supervision over each student in his division, and for conducting

necessary correspondence with the student's parents or guardians.

22. Each student residing in the College is provided with a separate room, and with fuel and light, also with the necessary attendance. Furniture and bedding are sapplied by the College, but each student is required to provide his own towels and bed linen. Meals are

taken in hall. Wine and beer are not included in the ordinary fare, but can be obtained from the College cellar at fixed prices.

23. A chapel is attached to the College, which the students residing in the College are

expected to attend, unless specially exempted.

24. Every student will be required to go through a course of gymnastics and also of military exercises, including the use of the rifle.

25. Students are required to wear academical dress, under such regulations as may be prescribed from time to time.

Students not nominated for the Indian Forest Service, but desirous of obtaining a Diploma in Forestry from Cooper's Hill College.

26. Students not nominated for the Indian Forest Service may be received into the College, as far as the available accommodation permits. Such students may pass through the course of instruction prescribed for the nominees of the Indian Forest Service, as detailed above, or they may be permitted to participate in the instruction given in certain subjects only. On attaining the prescribed minima of marks in the several branches of study and in totals as laid down above, they will receive, as the case may require, either the College Diploma in Forestry, or special certificates showing in what subjects they have followed the instruction and with what result.

27. Candidates who desire to be admitted under paragraph 26 may submit the necessary application at any time, but not later than the 15th day of June of the year named for

admission, except with the special permission of the President. The application must be made on the prescribed forms, which can be obtained from the Secretary of the College.

28. Candidates whose applications are found satisfactory as to character and in other respects will be required to undergo an examination, to be held at the College, about the last week in June of the year for admission. The object of the examination will be to ascertain whether the candidate is qualified to follow the course of instruction with advantage (or certain parts of it, as the case may be). Candidates who do not come up to the required standard will not be admitted to the College.

The President may dispense with the whole or any portion of this examination in the case of a candidate who produces a University diploma, or other similar certificate granted

by a recognized examining body.

29. Candidates admitted to the College under paragraph 26, who propose to pass through the full prescribed course of study, will be required to pay the same fees in every respect as those paid by the nominees for the Indian Forest Service. Candidates who do not become resident, and are admitted only to certain subjects of study, will be required to pay the fees which may be fixed in each special case in consideration of the extent of their studies. The candidates of both classes will be required to abide by the general rules of the College.

Ordered that a copy be forwarded for information to the Local Governments and Administrations noted Bengal. North-Western Pro-Coorg.
Ajmere.
Andamans.
Hyderabad. in the margin, the Inspector-General of Forests, and the Comptroller and Auditor-

vinces and Oudh. Punjab. Central Provinces. General.

Ordered also that a copy be forwarded to the Foreign Department for communication to the Agent to the Governor-General in Baluchistan; and that these papers be published in the Supplement to the Gazette of India.

> (True Extract.) W. C. BENETT,

Offg. Secretary to the Government of India.

IRRIGATION OPERATIONS FOR RABI SEASON, 1889-90.

No. 1367I.

GOVERNMENT OF BENGAL-PUBLIC WORKS DEPARTMENT.

Irrigation.

Dated Calcutta, the 17th September 1890.

RESOLUTION.

READ-

Statements Nos. I, II, and III, showing irrigation operations of Canals in Bengal during the rabi season 1889-90.

OBSERVATIONS.—The area irrigated during the rabi season of 1889-90 was 60,553 acres against 106,883 acres in 1888-89 and 59,130 acres in 1887-88. Thus there was a decrease of 43.3 per cent. on the previous year, in which, however, the rabi season was one of unusual activity.

2. The decrease occurred almost entirely on the Sone and Sarun Canals. On the Midnapore Canal, where the supply of water during the rabi season cannot be guaranteed, 440 acres of boro rice were irrigated against 3,369 acres in the previous year. In Orissa there was an increase from 2,973 to 6,059 acres.

3. The details of increase or decrease in the area irrigated by each canal are given in the following comparative statement:—

erica insultanta	Canai			RABI S	EASON.	More.	Less.	
no services Su tomas	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	responsible	2 190	1888-89.	1889-90,	100 CA2453		
ar alabah Manggar		enal sang 1 nu sang 1		Acres.	Acres.	Acres.	Acres.	
	Taldunda	ng Time iyaani Ng Vig tor ea saya	31. H. 1	242	631	389	4	
Orissa }	Kendrapara High Level,	Range I		} 2,563	5,272	2,709		
		Ranges II and		168	156		12	
Midnapore		the second		3,369	440		2,929	
A PERSONAL PROPERTY.	Patna	LTC. CHARLES		11,432	7,319		4,113	
Sone }	Arrah			35,566	22,661		12,905	
(Buxar			50,227	23,915		26,312	
Sarun	VIET TE TER		•••	8,316	159		3,157	
		Total	Sino	106,883	60,553	3,098	49,428	

Ordered that a copy of this Resolution, and of the Statements Nos. I, II, and III, be submitted to the Government of India, in the Public Works Department, for information: also that copies be forwarded to the Commissioners of the Orissa, Burdwan, and Patna Divisions; the Collectors of Cuttack, Midnapore, Patna, Shahabad, Gya, and Sarun; the Superintending Engineers of the Orissa, South-Western, and Sone Circles; and the Examiner of Public Works Accounts, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, Col., R.E., Secretary to the Government of Bengal.

No. I.-RABI STATEMENT.

at my 3

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE RABI SEASON, 1889-90.

Comparative Statement of Irrigation and Rainfall in Canal Districts of Bengal.

					AREA IR	RIGATED.	1889-90 AS WITH	COMPARED 1888-89,				RAINE	ALL FOR	FOUR MO	NTHS.				
Di	STRICT.		Area in acres.	Culturable acres.					Nove	mber.	Dece	mber.	Jan	uary.	Febr	uary.	T	otal.	REMARKS.
					1888-89.	1889-90.	Increase.	Decrease,	1888,	1889.	1888.	1889.	1889.	1890.	1889.	1899.	1888-89.	1889-90.	
					Acres.	Acres.	Acres.	Acres.	In.	In.	In.	In.	In,	In.	In.	In.	In.	In.	
Cuttack		7			£ 2,835	5,964	3,129		3.06	11.67		0.18	0.03	0.07	0.90		3 99	11.92	Average rainfall of eleven stations in the Cuttack district.
Balasore					138	95	1	43	1.89	8.89			0.25		0.35	0.15	2.49	9.01	Average rainfall at Bhuddruck and Acquapudda stations.
Midnapor	} Information			*3,369	*440		2,929	0.08	3.93	3		1.62		4.80		6.20	3.93	and tredanhamas assessed	
Hooghly	••	}			l														No rain-gauge stations on the Tidal Reaches of the Midnapor
Gya			3,015,680	2,356,000	5,795	4,448		1,347	0.80				0.40		0.23		1.73		Canal. Rainfall at Daudnagar station.
Patna			1,329,920	1,039,000	5,637	2,871	· · · · · ·	2,766	0.68	0.30			4.85		3.42		8 95	0.30	Rainfall at Bankipore station.
Shahabad			2,806,400	2,192,500	85,793	46,576		39,217	0.47	0.18			1.64		1.08	0.04	3-19	0.22	Rainfall at Arrah station.
Sarun			1,680,000	12,500	3,316	159	•••••	3,157	0.25	1.57			2 60		1.01	0 09	3:86	1.66	Rainfall at Sewan station.
	Total				106,883	60,553	3,129	49,459											

* Boro rice.

G. A. G. SHAWE,

Under-Secy. to the Gort. of Bengal.

IRRIGATION OPERATIONS OF FASL RABI, 1889-90.

Statement in acres of crops irrigated in Canal Districts.

	NATURE OF CROPS.			Cuttack,	Balasore,	Midnapore.	Hooghly.	Gya.	Patna.	Shahabad.	Sarun.	TOTAL.
larden and orel	ianda			159						91		940
ugarcane		M. (5)	***	67			G 10 10000		******	81		240
	(Wheat		E	THE RESIDENCE OF THE PARTY OF T	95		******			00.000	*****	162
	Barley		S.**			*****	******	794	256	20,632	******	21,682
ereals	··· SRice			1,825	*****	******	*** ***	1,630	1,035	9,153		11,818
	Miscellaneous	F***	***		******	440	******		*****		*****	2,265
	Gram, &c.		***	28	******	******	*** ***		*****	124	*****	152
Pulse			200	19		*****	*****	457	264	2,388		3,128
odder crops	" Miscellaneous	***	***	469	******	30	*****	1,013	522	3,885	34	5,923
ibres	Grass, lucerne	***	***		10000		******				2	
		***	***	3,011	******		******			4	*****	3,01
yes	Indigo	***	***	241	******	mini				inni	*****	241
	" Turmeric, &c.	***	***	43	******	*****	*****		******			49
rugs	Opium	***	***	*****	******	*****	******	554	794	581	123	2,052
	Louisco, &c.	***	***	******	******		******					*****
ilseeds	Mustard, &c.		***	1	*****		******			634		635
fiscellaneous	Coastor		**	97	******						******	97
lot weather	***	S***	***	4	*****			luna.	111 416	9,094	*****	9,098
tor weather	***	***	***	******	10000				1000			
	m. 1 m. 1: 1		-								*	
	Total Rabi, 1889-	90		5,964	95	440		4,448	2,871	46,576	159	60,553
	Total Rabi, 1888-	89		2,835	138	3,369	f	5,795	5,637	85,793	3,316	106,883

CALCUTTA,

The 17th September 1890.

G. A. G. SHAWE,

Under-Secy. to the Goot, of Bengal.

No. III .- RABI STATEMENT.

IRRIGATION OPERATIONS OF FASL RABI, 1889-90.

Statement in acres of crops irrigated by Canals in Canal Divisions.

NATURE OF CROPS.	Taldunda Canal.	Kendrspara High Level Canal, Range I	High Level Canal, Range III.	Midnapore Canal,	Patna Canal.	Arrah Canal.	Buxar Canal.	Sarun Canal.	Total,	BEMARKS
	Mahanuddy.	Brahmini-Byturni.	Acquapada-Jajepore.	Cossye.	Eastern Sone.	Arrah.	Buxar.	Gunduck.		
Miscellaneous Hot weather	26	99 41 1,778 6 18 282 2,697 241 20 94 1	11 95 50	440	1,050 2,665 721 1,535 1,348 	6,411 8,284 124 2,361 3,542 4 633 700	1 14,221 869 27 343 59 1 8,394 23,915	34 2 2 123	240 162 21,682 11,818 2,265 152 3,128 5,923 2 3,015 241 43 2,052 635 97 9,098 	
Total Rabi, 1889-90 Total Rabi, 1888-89		2,563	168	3,369	11,432	35,566	50,227	3,316	106,883	

CALCUTTA,

G. A. G. SHAWE,

The 17th September 1890.

Under-Secy. to the Govt. of Bengal.

IRRIGATION OPERATIONS FOR THE YEAR 1889-90.

Comparative Statement of Irrigation and Rainfall for the years 1888-89 and 1889-90 in Canal Districts of Bengal.

		20						Δ	RBA IRRIGATE	D.					RAINPALL,		
					1	Kharif, 1889-90			Rabi, 1889-90.		2000	Whole year	1889-90.	200			
Dista	ict.		Area in acres.	Culturable acres.		In compar kharif,	ison with 1888-89.		In comparison with 1888-89.			In compar 1888	ison with	Percentage	1888-89.	1889-90.	Percentage of increase or
		200			Total area.	Increase,	Decrease.	Total area.	Increase.	Decrease,	Total sres.	Increase.	Decrease.	of increase or decrease.			decrease,
1				3		5	6	7	8	9	10	n	12	13	14	18	16
OT DOWN					Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.		In.	In.	In.
Cuttack)	1	132,830	1,945		5,964	3,129		138,794	5,074		(+)3.8	43.17	54.67	(+)266
Balasore			Toform	tion not	34,400	8,772		95	*	43	34,495	8,729	1	(+)25 3	42.53	40:44	(-)4.9
Midnapore				rmation not { vailable.	65,011		895	440		2,929	65,451		3,824	()5.8	57-92	33.60	(-)41.9
Hooghly			}		818		184			100	318	T.,	184	()57.8			
Gya			3,015,680	2,356,000	29,779		31	4,448		1,347	34,227		1,378	(-)4.0	42.74	21.97	(-)49.0
Patna			1,329,920	1,039,000	22,943	•••	2,810	2,871		2,766	25,814		5,576	(-)21.6	44:37	34.38	()22.5
Shahabad			2,806,400	2,192,500	193,488		9,633	46,576		39,217	240,064	•••	48,850	(-)20-3	44.84	33.55	(-)25.1
Sarun			1,680,000	1,312,500	2,343		1,555	159		3,157	2,500		4,712	()183·4	40.65	30.65	()124·6
	Total	.,			481,111	10,717	15,108	60,553	3,129	49,459	541,664	13,803	64,524	()9·3		_	
					Net decrea	1se	4,391	Net decre	ise	46,330	Net decres	ase	50,721				

CALCUTTA,

The 17th September 1890.

G. A. G. SHAWE,

No. II.-ANNUAL STATEMENT.

IRRIGATION OPERATIONS FOR THE YEAR 1889-90.

Statement in acres of crops irrigated in Canal Districts.

NATURE OF CROPS.	Cuttack.	Balastre,	Midnapore.	Hooghly.	Gya,	Patna.	Shahabad,	Sarun.	TOTAL.
arden and orchards	150						81	E PART NO.	244
	159	******			2,839	1,546	21,350	2	25,899
ugarcane	67	95			794	256	20,632		21,682
(Wheat		******			1,630	1,035	9,153		11,818
ereals Barley			******					9.000	
Mice	134,655	34,400	65,451	318	26,641	21,391	157,703	2,208	442,767
(Miscellaneous	28	*****	******	411.44	299	6	794	119	1,246
ulse Gram, &c	19	*****	******	* *****	457	264	2,388	******	3,128
(Miscellaneous	469	******		*****	1,013	522	3,885	34	5,923
odder crops Grass, lucerne		******			******			2	2
ibres Cotton	3,011			· · · · · ·	******	******	4	******	3,015
[Indigo	241				1 000	F107	anoi .	9	250
Yes "Turmeric, &c	43		******	******	******	*****		min.	43
CO					554	794	581	123	2,052
rugs Tobacco, &c							*****		*** ***
CMCALL C	1	men					634		635
ilseeds { Castor	97					100			97
fiscellaneous	Miles and the second second		AND THE PERSON NAMED IN COLUMN		1		9,094		9,098
ot weather			or the second				13,765	P11-111	13,765
or wearder	***	*****	******	****	******				
							OF THE PERSON NAMED IN	CHECK USER	
					25				
Total, 1889-90	138,794	34,495	0 00 IF1	318	34,227	25,814	240,064	2,501	641,664
10141, 1009-90	138,794	34,480	65,451	310	34,041	20,014	250,009	2,001	011,001
Total, 1888-89	133,720	25,766	69,275	502	35,605	31,390	288,914	7,213	592,385

CALCUTTA,

G. A. G. SHAWE,

The 17th September 1890.

Under-Secy. to the Govt. of Bengal.

IRRIGATION OPERATIONS FOR THE YEAR 1889-90.

Statement in acres of crops irrigated by Canals in Canal Divisions.

NATURE OF CROPS.	Taldunda Canal.	Kendrapara High Level Canal, Range I.	High Level Canal, Range II. Canal, Range III.	Midnapore Canal,	Patna Canal.	Arrah Canal,	Buxar Canal.	Sarun Canal.	Total.	RHMARK
	Mahanuddy, Brahminee-Byturnee,		Acquapadda-Jajepore.	Cossye.	Eastern Sone.	Arrah.	Buxar.	Gunduck,		
arden and orchards ugarcane Barley Rice Miscellaneous Gram, &c. Miscellaneous odder crops Grass, lucerne ibres Cotton Turmeric, &c. Turmeric, &c. rugs Mustard, &c. Castor ot weather	38,233 22 1 187 314 	990 411 93,980 6 18 282 2,697 241 20 94 1	36,842	65,769	4,385 1,050 2,665 48,032 305 721 1,535 	80 13,478 6,411 8,284 93,512 291 2,361 3,542 4 622 633 700 10,215	1 7.872 14,221 869 64,191 503 27 343 69 1 8,394 3,550	2,208 119 34 2 9 	244 25,899 21,682 11,818 442,767 2,246 3,128 5,923 2 3,015 250 43 2,052 	
Total, 1889-90	38,862	97,479	36,948	65,769	60,041	140,033	100,031	2,501	541,664	
Total, 1888-89	40,407	90,928	28,151	69,777	66,995	165,349	123,565	7,213	592,385	

CALCUTTA,

The 17th September 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 20th September, 1890.

N	0.	District and o		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEN	GAI	. Western Di	stricts.		
4	1		Sept. 20, '96	1·31 0·66 0·37 1·05	Weather—hot and cloudy. Aus is being harvested. Prospects of amun a sugarcane good. More rain wanted everywhere. Prices of common rice: Srs. Burdwan 16½ Culna 15 Cutwa 16½ per rupee.
	2	Bankoora	,, 20, '9	2.14	Ranigunge 16) Sky clear and weather warm. More rain wanted. Prospects of crops contingod. Aus harvest commenced. Price of common rice 19 seers per rup
i.	3	Birbhum Rampore Hau	., 20, '9	0·22 1·03	at Sudder and 16t seers at Bishenpore. Weather—dry and warm. Crops still everywhere excellent; but more rain wanted. People have already begun to irrigate. Price of rice 16 to
AN Dry	4	Midnapur	,, 20, '9	1.20	seers per rupee. Bright sunshine with occasional rain. Rain still wanted in many places, be prospects improved. Indigo being sown again. Prices of common rice:
BURDWAN DIVE.					Sudder 164 Contai 16 Ghatal 17 Tumlook 15
1	5	Hooghly Jehanabad	., 20, %	0·75 0·58	Weather—fair with showers. State and prospects of crops good, but more required. Prices of common rice:—
		T ST	1		Sudder 13 Serampore 13 Jehanabad 16
1	X	Howrab Uluberiah	,, 20, '9		Weather—seasonable. Harvesting of aus and jute and transplanting of au still going on. More rain wanted for amun crop. Prospects fair excep some villages where floods have done considerable damage. Price of com
Í	6	Central Dis	Sept. 23, 4	00 1-91	rice about 14 seers per rupee. Weather—seasonable. Harvesting of aus and jute and transplanting of au almost over. Outturn of aus and jute estimated at between 13 and annas. Prospects of amus continue fair except in the flooded area of Bussirhat subdivision, where the crop has been destroyed. Relief is be given to persons in distress caused by flood. Prices stationary.
DENCE DIVE.	7	Nuddes Meherpore Chuadanga	" 20, '9 	1.05	Weather—seasonable. Winter rice doing well. Flood rapidly subsidi Kalai and mung being sown. Rice selling at 14 seers per rupée.
PRESIDEN	8	Ranaghat Khoolna Bagirhat Satkhira	20, '9	0 1.63	Weather—bright and hot with occasional showers. Flood-water recedi Nearly the whole of the crops submerged have been destroyed. Reaping aus and transplantation of amus nearly over. Prospects in the floor thanss bad; elsewhere good.
	9	Jessore Jhenidah Magura Narail Bongong	,, 20, '9	1.55 1.43 . 0.34	Weather—hot and cloudy. Flood-water rapidly subsiding. Prospects of good in Magura and Narail. Sowing of cold-weather crops and indigo of menced. Enquiries about flood damages in progress. Charitable rebeing given in Bongong and Jhenidah.
l	.10	Moorshedshad	., 20, '9		Weather—bright and clear. Harvesting of bhadoi nearly completed. Some transplantation of haimanti paddy still going on in the Kandi subdivision Kalai has been widely sown. Cuttivation for rubbi commenced. Flor much receded. Agricultural loans and charity being distributed to the in distress.
	11	Dinagepur Thakurgaon	,, 20. '9	9.77	Weather—variable. Prospects of crops continue favourable. Price of unchanged.
	12	Rajshshye Nattore Nowgong	" 20, '9	1.67	Weather—seasonable. Flood-water subsiding generally, and in some parapidly. Prospects improving in Nowgong, and in Nattore are good.
DIVE.	13	Rungpur Kurigram Nilphamari Gaibanda	" 20, ′9	1.39	Weather—sultry with frequent showers. Transplantation of amun rice nest over. Rain now wanted for the young plants. Jute has been greatly of done, and in many places will hardly repay the cutting. Prices still whigh.
RAJSHAHYR DIVE.	14		,, 20, 3	0 1.70	Weather—days hot and sultry. Amun is still being transplanted. Three-four of the aus paddy have been reaped, and the reaping of jute is not finis yet. Amun and sugarcane look promising. Common rice selling at 19 seper rupes.
RA	15	Pubna	,, 20, 1	1.19	Weather—cool and cloudy. Jute harvest not yet finished; outturn estima at about 14 annas. Prospect of anun not good in the Sudder subdivision. Prices stationary.
	16	Darjeeling Silliguri	,, 20, '1	. 8.05	Weather—fair and fine. Transplantation of winter rice in Terai net finished. Jute, bhadoi, bhutta, and chota marua still being harves Haimanti rice and bara marua progressing favourably.
	17	Julpigoree	,, 20, 4	3.47	Weather—hot and cloudy with rain at intervals. About 14 annas of haime paddy transplanted. Average outturn of ans and jute reported to be and 11 annas respectively. Prices continue stationary.

A STATE OF THE STA	No.	District an		Rainfall at Sadder Station in inches.	Character of the weather and state and prospects
BE	NGA	I-concluded.			
		Eastern 1	Districts.		
	18	Dacca	Sept. 20, '90	1.08	Weather—hot and cloudy at intervals. Rain heavier in Manickgunge than in other subdivisions. Aus and jute being harvested. These crops have been partially damaged be high flood. Amun doing well. Rivers falling, Fodder available, but not in abundance. Common rice sold at from 13
DACCA DIVE.	19	Furreedpur	" 20, '90	2.49	to 15 seers per rupee during the week. Weather—seasonable. Flood-water fast receding. Prospect of amun crop fair. Jute steeping in progress. Price of rice stationary.
COA	1				
DA	20	Backergunge			Report not received.
	21	Mymensingh	Sept. 20, '90	4.18	Weather—hot and cloudy with occasional rain. Jute still being harvested. Transplantation of amun nearly finished. Standing crops flourishing.
LYN.	22	Chittagong	,, 20, '90	3.84	Rivers going down. Price of common rice 134 seers per rupee. Weather—seasonable. About 14 annas of aus cut, and amus transplanted over 12 annas of land. Prospects fairly good. Prices steady.
Ситтьевома Баук	23	Noakholly	" 20, ′90	1.67	Weather—warm and sultry. Reaping of aus completed. Transplantation of amun still going on. Betel-nuts maturing.
HITTAG	24	Pippersh	-		Report not received,
0	25	Chittayon Hill	l Sept. 18, '90	2.05	Weather—extremely hot and rainy, except on the 16th and 17th. Gathering of jum paddy continues. Plough-paddy progressing. Common rice being
DE	HAR	Hill Tipperah	,, 19, '90	3.17	weather—hot with occasional showers. Cutting of jute going on. Prospects of amun and jum crops generally fair. Prices stationary.
DEI					
	26	Patna Rarh Behar Dinapore	" 20, '90 	1·19 1·40 1·05 3·20	Weather—very hot. Transplantation of paddy over and prospects favourable. **Bhadoi crops are being harvested. **Jowar and rahar look flourishing.** Prices of food-grains stationary.
	27	Gya	20, 90		Weather—sometimes cloudy and sometimes clear. Paddy and kurthi are the only crops standing in the fields. Prospect of paddy is doubtful for want of rain. Ploughing of rubbi fields commenced. Prices of food-grains have
IVE.	28	Shahabad Buxar Bhabuah	" 20, '90 	2.35	risen to some extent. Weather—cooler than last week, but still hot. Rain in Sasseram and Bhabuah has saved the paddy crop for the present. More rain will be wanted. The rains do not appear to have finished, and prospects are good. Price of wheat
PATEA DIVE.	29	Sasseram Durbhunga Somastipur Madhubani	" 20, ¹ 90 	1·02 0·29 1·18 0·70	rising, but that of paddy falling, in Sasseram; elsewhere prices unchanged. Weather—hot and cloudy. Bhadoi harvest still in progress. Prospects of rice in parts not affected by floods continue favourable. A few showers of rain would, however, greatly benefit the crop. Lands being prepared for rubbi-
	80	Mozufferpur Hajipur Sitamarhi	,, 20, '90 	0.62 2.88 0.58	cultivation. Prices remain stationary. Makai and other bhadoi crops are being harvested; outturn will be better than was expected during the heavy rains of July and August. Rice is doing well, specially in the Sitamarhi subdivision, and with a further rainfall of three or four inches before the middle of October, a good outturn will be
	31	Sarun Sewan	,, 20, '90	0·52 5·88 2·07	obtained. Weather—not and bright; occasionally cloudy. Paddy, where it survives, has been benefited by the rain. More rain wanted. Preparation of lands for rubbi commenced.
	82	Gopalgunge Chumparua Bettiah	,, 20, '90	1.88	Weather—hot and sultry. Rainfall of the week has considerably benefited the winter rice on high lands; prospects very good. Bhadoi crops are being cut and housed. Prices remain almost stationary.
	33	Mongbyr Beguserai Jamui	,, 20, '90	0.79	Weather—hot and sultry; cloudy at times. Recent rain has benefited the winter rice, but more rain is wanted. Lands are being ploughed for rubbi sowing.
DIVE.	34	Bhagulpore Banka Mudhepura	,, 20, '90	0.71 0.88 Nil 0.43	Weather—hot and sunny. Prospects of winter rice continue good, but more rain is wanted. Bhadoi harvest nearly over.
BRASTLFORS DIVE.	35	Soopool Purneah Kishengunge Arrareah	,, 20, '90	0.34 0.93 1.27	Weather—cloudy and close. Prospects continue favourable. Rhadoi harvest completed with an average outturn of 13 annas. Transplantation of winter rice finished. Prices stationary.
1	36	Maidah Chanchal Shibgunge Gajole	,, 20, '90	0·52 0·78 0·25 1·53	Days hot and bright, but mornings somewhat cool. Jute still being cut. Winter rice thriving well. Kalai sowings going on. Lands being prepared for rubbi crops. Common rice selling at from 12 to 17½ seers per rupee.
	87	Sonthal Perghs. Deoghur Godda Jamtara Pakour	" 20, '90 	0.98 0.52 0.46 0.56 1.62	Weather—generally cloudy and hot. Rain has done much good to the rice crop, and another fair shower will secure an outturn of 16 annas. Janera is nearly a failure; about 4 annas will be the outturn of this crop. All the minor crops are doing well.

N	0.	District and return		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
RIS	SA.				
	\$8	Cuttack	Sept. 20, '	90 5.29	Weather—seasonable. Harvesting of early beali going on. Laghu as well as guru sarad doing fairly well except in Jajpur, where, as previously reported, paddy crop generally, and beali and early sarad specially, have suffered from want of sufficient rain. Outturn of early sarad estimated at 7 annas. Two heavy showers have, however, fallen during the week, and prospects are likely to improve.
1	89	Pooree Kucorda Banpur		90 1·24 0·59 5·67	Weather—seasonable. Weeding of sarad crop going on. Beali and mandia are being harvested. Miscellaneous crops doing well. Insects called haldi-goondi and rangi have attacked the sarad crop in the Khoorda subdivision. Price of common rice stationary.
10	40 TA	Balasore NAGPORE.	" 20, '	90 3:36	Weather—seasonable. Rain has come in time to save the winter rice crop or lowlands, but that on high lands is already dead. Estimated crop in Bhuddruck 10 annas, and in the Sudder subdivision at least 12 annas.
2	Sout	h-West Frontie	r Agency.		
ĺ	41	Hazaribagh	Sept. 20, '	90 1.93	Weather—rather unsettled. Rain on 16th and 17th has greatly benefited the rice crop. Bhadoi crops are being harvested; outturn generally very poor. Oilseeds and pulses are being sown.
1	42	Lohardugga Palamow (up	,, 20, ' to 15th Sept	90 3·35) 0·70	Weather—seasonable. Rainfall during the week has done much good to the winter rice crop. Some more rain is wanted for this crop. Early gore rice is being harvested here and there. No material change in price.
1	43	Singbhoom	Sept. 20, '	90 2:51	Weather—cloudy with storm every day. The recent rain has done immense good to the winter rice crop; more rain is, however, wanted in order to place it out of danger. The upland (bera) paddy has suffered to the extent of about 4 annas. Price of rice varies from 13 seers per rupee at Monarput to 20 seers at Kalkapur; in Chyebassa town it is selling at 16 seers per rupee.
1	44	Manbhoom Govindpore	" 20,	90 2.04 2.25	Weather—very favourable. Good rain all over the district, and the rice crop has been materially benefited. Prospects generally fair.

Published for general information.

CALCUTTA; REVENUE DEPT.,

The 23rd September, 1890.

P. Nolan. Secy. to the Gort. of Bengal. PRICES-CURRENT (RETAIL) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH SEPTEMBER 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

1							7.0	1						QUA	NTI	TH	S PEI	RUP	EE IN
		7	VHEAT.		В	ARLEY.	1	Ric	CE, I	BEST S	ORT.	R	ICE,	сомм	ON.			OR CE	
Number.	DISTRICTS.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	www.	Next proceding return.	Carresponding return of last year.	Present return.		Next preceding return.		of last year.	Present return.	Next preceding return.	Corresponding return of last year.
W	BENGAL.	S. Ch	S. Cb.,	s, Ch	s. ch.	s. Cb.	s. Ch.	s. O	ı.S.	Ch.	S. Ch.	8. (Jh.	8. Ch	S.	Ch.	ч. Сь	s. Ch	s. Ch
1	Bardwan	14 10	14 8	12 12				12 6	12	0	11 4	16	5	15 15	14	7) 	
2	Bankoora	15 C	15 4	13 8	20 0	20 0	17 0	15 0	15	0	15 0	18	0	18 0	17	12			
8	Beerbhoom	17 0	17 0	15 0	/		-	13 8	13	8	12 0	16	8	16 8	14	4			
4	Midnapore	11 0	11 0	13 6	-			13 (18	3 0	12 8	16	4	16 0	15	8			
5	Hooghly	13 0	13 0	13 0	-			8 () 8	3 0	8 0	13	0	13 0	12	0	•	1	-
	Howrah	-	l		l			10 (10	0	9 0	13	4	13 4	12	8	•		-
	Central Districts.	13 8	8 13 9	13 4	17 3	17 4	16 12	81	4	8 15	8 10	12	12	13 1	13	2	16 0	17 6	14 8
6	Calcutta	14		14						8 0	7 0			14 0	13	4			
7	Nuddea	15	4 15 10	14	20 0	17 12	17 12	12	3 1	1 6	10 10	14	8	13 0	13	8			
8	Khoolna							12	0 1	0 8	10 8	13	0	12 8	13	0			
9	Jessoro	13	4 13 4	11 (**	11	0 1	1 0	9 0	14	4	12 0	12	0			
10	Moorshedabad	16 (0 16 0	15		-	-	10	0 1	0 0	10 0	15	0	15 0	13	8			
11	Dinagepore	15 (0 15 0	16	18 0	18 0	-	12	0 1	2 0	12 0	15	8	15 8	13	0			
12	Rajshahye	17	4 15 0	15 (24 0	22 8	16 8	12	0 1	2 0	9 12	14	4	13 8	11	4			
13	Rungpore	13	5 13 5	12		-	-	9	6	9 6	7 8	13	6	13 5	9	6			-
14	Bogra	15	0 15 0	12 (12	0 1	2 0	9 12	14	4	15 0	12	0	•		-
15	Pubna	18	0 18 12	16	3	1	-	7	2	7 0	8 8	16	2	15 6	12	12			
16	Darjeeling	8 (0 8 0	10 (10 0	10 0	10 0	5	0	5 0	5 0	11	0	11 0	11	0			
17	Julpigoree	13 (0 14 0	12 (16 0	16 0	16 0	8	0	8 0	8 0	13	0	14 0	13	0			
1	Eastern Districts.																		
18	Dacca	12 (0 12 0	13 (13 0	13 0	26 0	13	0 1	2 0	10 0	14	0	14 0	111	0		•	"
19	Furreedpore	15 (0 15 0	15 (20 0	20 0	16 0	10			9 0			14 0	130				
20	Backergunge		-	-	-	-		11	8 1	1 10	10 4	12	8	13 4	11	4		-	
21	Mymensingh	10 0	11 8	10 (-	-	-	10	8 1	1 0	8 12	13	4	13 8	10	0			

Increase due to want of import by rail in consequence of the flood.

An subdivisions retail prices of sait per rupes are:—Calna 10 seers, Cutwa 10 seers 6 chittacks, and Raneegunge 10 seers.

B At Rampore Haut retail prices of sait per rupes are:—Contai 9 seers, and Ghatai 11 seers.

In subdivisions retail prices of sait per rupes are:—Sarampore 10h seers and Jehanabad 10 seers 11 chittacks.

In subdivisions retail prices of sait per rupes are:—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

In subdivisions retail prices of sait per rupes are:—Kooshtea, Meherpore, and Chooadanga 10 seers, and Ranaghat 9 seers 2 chittacks.

G In subdivisions retail prices of sait per rupes are:—Satkhira 10 seers and Bagirhat 8 seers.

In subdivisions retail prices of sait per rupes are:—Satkhira 10 seers, Magura 10 seers, Narail 9 seers, and Bongong 10 seers.

In subdivisions retail prices of sait per rupes are:—Lalbagh 9 seers, Jungipore 10 seers, and Kandi 11 seers.

F 80 TOLAHS.

E Ct	MBU.	MARI (Eleus	A OR	RAGI
turn,	Corresponding - re- turn of last year.	Present return.	Next preceding re-	Corresponding re-
Ch.	S. Ch.	S. Ch.	S. Ch.	s. ci
			6	
375.3	1	interior and the		200
***		""	•••	***
,,,	-			
***			,	
1 3	11 6		1	
	in.			
		"	"	
44			***	-
				-
	A			
***				**
***				**
		16 0	13 0	14 6

*	1			
		New		
	-		-	
*		-		
1	KIND S	10000	1 10 10	1393

84

ITAL	NI OR I		CHHO (Cice	R Str
Present return.	Next preceding re-	Corresponding re- turn of last year.	Present return.	Next preceding re-

S. Ch.	S. Ch.	8. Ch.	S.	Ch	IS.	C
			18	12	20	0
			16	0	17	0
			18	12	18	12
			17	0	17	0
			16	0	16	0
			18	12	18	12

8	9	8	2	16	0	17	8	18	11
7	0	7	0	14	8	20	0	21	0
				57		23	12	21	H
						16	0	13	0
						16	0	16	0
						23	8	28	8
		174				21	0	21	0
						21	0	21	0
						12	4	12	4
	•					18	12	18	12
	•					18	12	18	12
	•		•			12	0	11	0
		4				16	0	16	0

**	•••		13	0	12 0
			16	0	16 0
			16	0	17 12
			15	0	14 0
	12.00	SCHOOL	1100		5000

| WHOLESALE PRICES |

Head-quarter Station Bazars of the Districts of Bengal on the 15th September, 1890.

																				PE	R	MA' SE	UN	D	OF	40)	
	MAIZ Zea Mo	R.	860	C	ADJ	AN	THU PEA dice			FIRE	wooi),			SA	LT.			The second	P		SA	LT.					
Present return.	Next preceding return,	Corresponding return of last year.		Present return.	Next preceding	m.	Corresponding return		Present return	Next preceding	return.	Corresponding return of last year.		rresent return.	Next preceding	H.	Correstionding tohum	of last year.		Present return,		Nort wooding	H.			of last year.		DISTRICTS.
	1									4																	10	BENGAL.
S. Ch.	s. Ch	.S. Ob.	s.	Ch	8.	СЬ	8.	Ch	. js. d	Ch.S.	Ch. S	C	h. S.	Ch	S.	Ch	S	Ch	R	- A	. P.	It's	۸.	P	R		. P	Western Districts.
			20	0	20	0	18	0	100	0 100	0 1	00	0 11	2	10	14	10	65	3	8	0	8	8	6	3	11	8	Burdwan.
27 0	26 0	20 0	18	0	18	0	14	8	240	0 240	02	40	0 10	4	10	4	10	0	3	15	0	3	15	0	3	15	0	Bankoora.
			13	8	13	8	10	8	160	0 160	01	60	0 10	B ₈	10	8	10	8	3	10	0	3 :	10	0	3	10	0	Beerbhoom.
1	-		12	0	12	0	12	8	120	0 120	0 1	60	0 10	8	10	8	10	6	3	13	0	3 1	13	0	3	13	6	Midnapore.
			11	0	11	0	13	0	120	120	0 1	20	0 9	0	9	0	9	0	3	12	0	3 1	12	0	3	11	6	Hooghly.
			12	8	13	0	12	8	100	0 100	0 1	00	0 10	8	10	8	10	8	3	8	6	3	9	0	3	10	0	Howrah.
																												Central Districts.
18 10	18 2	16 0	15	12	16	10	117	8	92	8 92	8,1		0 10		10	7	10	4	3	8	11	3	9	0	3	9	9	Calcutta.
-			17	0	17	0	18	0	100	0 100	0 1	00	0 10	E 12	10	8	10	8	3	5	6	3	5	6	3	9	6	24-Pergunnahs.
-		-	16	13	18	18	16	0		٠.		•••	9	F 13	9	13	9	2	3	12	0	3 1	2	0	3	14	0	Nuddea.
-	/								160	6 140	016	30	0 8	0	8	0	9	0	4	0	0	4	4	0	4	0	0	Khoolna.
			16	0	16	0	16	0	160	0 160	0 16	30	0 8 B		9	1	9	2	4	4	0	4	0	0	4	0	0	Jessore,
			17	12	17	12	16	0	200	0 200	0 20	00	0 11	4	11	4	11	4	3	8	0	3	8	0	8	8	0	Moorshedabad.
		-	16	0	16	0	18	0	160	0 160	0 12	0	0 10 J	0	10	0	10	0	4	0	0	4	0 (0	3 1	5	0	Dinagepore.
-			18	10	18	12	16	0	240	0 240	0 24	0 1	9 K	9	9	9	9	9	4	0	0	4	0 (0	4	0	0	Rajshahye.
			10	10	10	10	9	6	100	0 100	0 10	0 (9 1	6	9	6	9	6	4	4	0	4	4 (0	4	4	0	Rungpore.
									90	0 90	0 9	6 (9	6	9	0	9	0	4	1	4	4 :	2 8	9	4	0	0	Bogra.
	-		17	4	16	8	16	4	200	0 200	0 20	0 (8-11	k 1-2	8-1	1-2	9-9	k 2-2	3	15	0	3 1	5 (1	0	0	Pubna.
18 0	18 0	20 0	8	0	5	0	8	0	120	0 120	0 12	0 (7 N	0	6	8	8	0	5	8	0	5 1:	2 (5	0	0	Darjeeling.
			11	0	11	0	11	0	210	0 200	0 12	8 1	0 9	0	9	0	9	8	4	4	0	4 4	1 (1	0	0	Julpigoree.
																												Eastern Districts.
-		- 1	12	0	11	11	14	0	120	0 90	0:16	0 (0 9 P	8	9	8	10	0	4	2	0	4 :	2 (7	3 1	5	0	Dacca,
16 0	16 0	19 0	10	0	10	0	14	0	120	0 120	200		10	201	10	0	9	0	8	14	0	3 14	1 (1	4	4	0	Furreedpore.
			12 K	bes 8	ari, 12	hus 14	lked 11	8	100	0 100	0 12	0 (11 9	0	10 1	10	10	0	3	10	0	3 15	2 0) :	3 1	4	0	Backergunge.
-			No	sale	13	0	18	0	***		TO SELECT		9 B	8	9	8	9	8	4	2	0	4 () ()	1	0	0	Mymensingh.
	BEN	1000	150	100	lid.			100		4		TRE	1	ald		01	00			100	1	ME	KOS	1	13	1	1	

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

	APART TERM	E 112	(A)(1)			1				5 6		2 188 2 188	DE V										1		
			W	VHEAT.			В	ARLE	r.		R	CE,	BES	ST BO	RT.			Ric	E, (COM	MON	¥.		R OR C	
	DISTRICTS.	Present return.		Next preceding return.	Corresponding return of last year.		Present return.	Next preceding	roture.	Corresponding return of last year.	Present return.	Lithous	Next preceding	rn.	Corresponding return	of last year.	Descent ratura.	Present return	Next preceding	return.	Corresponding return	of last year.	Present return.	Next preceding return.	Corresponding return
ast	ern Districts—con	ncluded S. Ct		s. Ch.	s, c	h	8. Съ.	s, c	p.18	3. Ch.	s.	Ch.	s.	Cb.	s.	Ch.	8.	Cb.	S.	Ćb.	8.	Ch	(8, Oh.	8. Ch	.js. c
2	Chittagong	11 (0	11 0	10	0	-			-	11	0	11	0	8	0	15	0	14	12	13	0			-
8	Noakholly			-	-						11	0	11	0	10	0	12	0	12	0	11	0			
4	Tipperah	11 :	7	11 7	12	0	-	-	1		8	14	8	61	12	0	12	101	12	5	15	0			
	Chittagong Hill Tracts. Hill Tipperah	6	0	 8 0	0 6	. 0	-	-			11 8	21	11 9	63	200	11 0	12 14	49	188	5 0	10	0	-	=	-
3 [BEHAR. Patna	Si6 1	12 1		21	?	20 0	19	8 2	21 0	10	0	10	0	10	0	15	4	15	5	15	0	19 0	19 8	19
7	Gya	15 1	12	White 15 12 15 8	2 , 16 19	2)								0					148			8	-		19
8	Shahabad	15	0	16 0	0 15	0	20 0	20	0 1	17 0	8	0	8	0	9	0	14 1	12	15	0	13	0	20 0	-	20
19	Durbhunga	14	8	15 6	6 14	13	13 0	17	9 1	19 0	12	0	11	0	9	2	16	8	15	4	14 1	13		-	
10	Mozufferpore	. 17	0	17	0 14	0	20 0	20	0	16 8	9	0	9	0	9	0	15	0	15	0	12	0	-	-	
11	Sarun	. 16	0	15 1	12 15	8	17 12	18	0	18 4	1 8	8	8	4	8	4	13	2	12	14	11	5		-	
12	Chumparun	. 17	0	17	0 14	0	19 0	22	0	17 0	10	0	9	0	9	8	15	8	17	0	12	0	-	-	
13	Monghyr	16	8	17 1	3 15	12	21 0	21	9211	18 14	20 G.E.		1		24 256 (3)	- 0	54 nore		N 15550		(3) 12.27(210 - 11000-110	1	
14	Bhagulpore ,	17	11	17 1	1 16	6	21 7	21	7	17 10	10			STATE OF THE STATE OF	1977		13 15	00015	11 (4.4)	GM.	2		-		
35	Purneah	18	0	18 (0 15	0				di.	2.50		15		REACSE		50 (4.250)		30,000	0	5 700		-	1,	
36	Maldah	18	0	18 (0 16	0	-			-	11	0	12	0	10	0	18	0	14	0	12	0	-	*	
37	Sonthal Perghs. ORISSA.	. 13	0	13 (0 13	0	l	۱.,			13	0	13	0	12	8	16	0	16	0	15	0	'	1-	
88	Cuttack	14	7	15 1	2 13	2	1-	1.		"	10	8	10	8	10	8	18	6*	18	8	15	12	1 -	1	1
19	Pooree	11 1	13	11 1	8 11	13	-				13	6	13	6	11	13	21	0	21	0	17	1	-	-	
10	CHOTA NAGI	PORE.		15 0	0 14	0	13 0	48	0	13 0	0 12	0	12	0	13	0	17	0	17	0	16	0	1	-	1
	outh-West Frontie	10000	100		1			200																	
11	Hazaribagh	(14		14 C	Red.		14 0	18	0	-	8	0	9	0	8		16	(116 Ordi 16	inar	/18			1	1
42	Lohardugga	8	0	Whit 9	ite.		}-	-							12	0	18	0	(19	onra 0	90. I		-	-	1
43	Singbhoom	16	0	12 () 10		20 0 18 0	20	0	20 0	12		100		100		15		20	0		0	1	-	1

^{*}Common rice at Jajpore 17 seers 1 chittack per rupee and at Kendrapara 21 seers.

R1 At Cox's Bazar retail price of salt 8 seers per rupee.

R2 At Feni Hat retail price of salt 8 seers per rupee.

S In subdivisions retail prices of salt per rupee are:—Buxar 10 seers, Sasseram 10 seers, and Bhabuah 9 seers.

T In subdivisions retail prices of salt per rupee are:—Samastipore 10 seers and Madhubani 10 seers 11 chittacks

U In subdivisions retail prices of salt per rupee are:—Hajipore 9 seers and Sitamarhi 10 seers.

Y At Bettiah retail price of salt 9 seers per rupee.

BAJE	A OB C	UMBU.	1		D.A
Penn	A OR C instum ideum.)	typko-	(Elous	ine Con	RAGI.
Present return,	Next preceding re-	Corresponding re-	Present return.	Next preceding re-	Corresponding re- turn of last year.
Ch.	S. Ch.	S. Ch.	S. Ch.	s. ch.	S. Ch.
	•••				
		•••			
	-	-		••	
				25 0	23 0
				1	
		ē			
		/	27 8	27 8	24 0
	/				
			19 8	20 0	22 0
			28 0	-	17 0
	·			-	
		-	7.		
		7			-
""	4	-			•
+					
***				1.	
					••
**					
**			30 0	29	83 0
-			45 0	86 0	32 0
*					-
1	-	•			
			4	193	0a

	I OR K	LENT.	200	OF	M, LA, St	INA	GA.	
Present return,	Next preceding re- turn.	Corresponding re-		rresent return.	Next preceding re-	turn,	Correstionding ra-	turn of last year
s. Ch.	S Ch.	S. Ch.	S.	Ch.	18.	Ch.	S.	C
			13	0	18	0	11	(
			12	0	12	0	13	
			10	0	10	0	15	
-			1000	0	12	0	12	
18 0	19 8	16 0	19	8	19	8	21	0
16 8	15 0	15 0	19	0	18	0	18	0
1			19	0	20	0	19	0
			19	12	19	12	22	18
			19	0	19	0	18	
14 0	16 0	12 0	18	8	18	4	18	
120			19	0	21	0	17	ı
14 11	14 11		21	0	23	1	19	1
-			21	7	22	3	17	-
			28	0	23	0	16	
			22	0	20	0	17	I
l		-	18	0	18	0	17	
	ļ	1 ***	114	7	14	7	19	
-	-		13	2	13	2	15	ı
			14	0	14	0	1	
9 15	7261							
"	"	-	16	0	17	0	15	
	04004		14	0	14	0	100	
-			180		16		H	
-	-	-	16	0	17	5		

Station Bazars of the Districts of Bengal on the 15th September, 1890-(concluded).

			0.5												WI	IOL	ESA	LE	PR	CE	s (
f 1s	DVAN-C	ORN OR	LAI	HAR O	R THUR									-	P	BIS 1		ERS	OF S.	40	
	MAI (Zea M	ZE.	0	ADJAN			Fir	EWOOD			SA	LT.			AV.		SAL	T.			
Present return.	Next preceding	Corresponding return of last year,	Present return.	Next preceding	Corresponding return	or more year.	resent return,	return.	Corresponding return of last year,	Present return,	Next preceding	return.	Corresponding return		Present return.		Next preceding		Comment of the Commen	of last year.	DISTRICTS,
s, ci	h., S. CI	s, S. Ch	, S. CI	.,8. C	h.,8. C	b.,S. (Ch., S.	Ch., S.	Ch. 18	. Ch.	18, 0	h. S	. Ch	R	i. A.	P. E	A B	. Y.	Kaste	rn .	Districts—concluded.
						133	0 110	3		RI	10		10 0					W)			Chittagong.
			8 0	8 (8 0					R2 0	9	0 1	9 0	4	0	0	0	0	4	0 0	Noakholly.
-			6 10	6 10	1 8 0				9	64	9 (5 <u>4</u> 8	0	4	3	0 4	3	0	4 4	1 0	Tipperah.
						320	0 320	0 320	0 8	0	8 (8	0	4	8	0 4	8	0	4 12	. 0	Chittagong Hill Tracts,
l	l	1	180	8 0	180	!	١		18	0	8 0	8	0	4	6	0 4	6	0	4 6	0	Hill Tipperah. BEHAR.
19 0	20.0	22 0	16 8	20 0	22 0	110	0 110	0 130	0110	0	10	10) 8	3	9	6 3	10	0	3 13	0	Patna.
		-	19 0	19 0	18 0	180	0 200	0 200	0 9	2	9 (9	2	4	1	0 4	0	0	4 2	0	Gya.
-			20 0	20 0	19 0	120	0120	0 140	0 10	T O	10 (10	0	3	15	0 3	15	0	3 14	0	Shahabad.
22 0	20 0	22 13	19 12	20 0	22 13	200	0 169	0 180	0 11	0	11 (10	0	3	8	0 8	8	0	3 14	0	Durbhunga,
22 0	20 0	16 0	19 0	19 0	18 0	160	0 160	0 160	0 10	0	10 (10	0	3 1	12 (4	0	0 ;	3 12	0	Mozufferpore.
18 0	1	18 0	18 4	19 4	20 4	160	0,120	0 160	0 10	8	10 4	9	12	3 1	2 (3	14	0	1 0	0	Sarun.
20 0		14 0	18 0	21 0	18 0	160	0 160	0 160	0 10	V 0	10 0	9	8	3 1	1 (3	14	0	0	0	Chumparun.
21 0	22 0	22 1	16 12	17 13	17 13	147	0 168	0 126	0 10	W ₃	10 3	9	15	3 1	0 0	8	11	8 8	14	6	Monghyr.
22 6	26 14	20 13	18 15	20 3	17 10	138	14 125	3 158	0 10	1	10 1	10	1	3 1	4 (3	12 1	0 4	0	0	Bhagulpore.
			15 0	15 0	14 0		130	0 180	0 9	X 8	9 8	9	0	4	7 (4	7	0 4	7	0	Purneah,
			***	4		120	0 160	0 140	0 9	0	9 8	9	8	4	0 (4	2	0 :	3 14	0	Maldah.
20 0			21 0	21 0	17 0	200	0 210	0 200	0 9	0	9 8	9	4	3 1	4 (3	14	0	1 1	0	Sonthal Pergha. ORISSA.
	1	"	19 11	21 0	18 6	80	0, 80	0 80	0 10	0	10 0	111	0	4	0 (4	0	0	3 12	0	Cuttack.
-		-	13 2	13 2	15 12	80	0 80	0 64	0 9	13	9 18	10	8	3 1	12 (3	12	0	3 12	0	Pooree.
Lan.	l				1	160	0 160	0 160	0 10	0	10 (10	0	3	14 (3	14	4100			Balasore.
																					NAGPORE. Frontier Agency.
20 0	21 0	30 o	21 0	21 0	17 0	240	0(24)	0 320	0 8	0	8 8	8	0	4	3 0	4	4 (9 4		Way.	Hazaribagh.
40 0		20 03	26 0 1	nall. 28 0 ig.	}13 8	12)	0 120	0 130		12	9 0	7	8	4	l e	4	3 (5	2	0	Lohardugga.
20 0	20 0				E31036	BINGER	0 240	THE STATE OF	1 2	0	8 0	100	0				2 (12			Sing bhoom.
			17 0		18.05		0 200		0 9		9 14	9				100	13 (1 4	2	6 1	danbhoom.
W	In sub	division											Jan	mi 9	8001	TH.					

W In subdivisions retail prices of salt per rupee are :—Beguserai 9; seers and Jamui 9 seers

Y In Khoorda subdivision retail price of salt 10 seers per rupee.

Z At Bhudruck retail price of salt 9 seers per rupee

Z2 At Govindpore retail price of salt 9 seers per rupee.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

						WE	TRA	T.				概然			BAB	LE	٧.	y				1	RIOR	, RES	T 6	ORT			1			Ri	CE,	CON	MON		
Number.	MARTS.		Present return.				Next preceding return.			Corresponding return	of user year.		Present return.			Next preceding return.		The market	of last year.	The state of the s		Present return.			Next preceding return.		Company of the referen	of last year.		of state and collection	Present return.	A STATE OF THE STA		Next preceding return.		Correctionding setum	of last year.
	No.	1		. P		R		P.	R	٠.	P.	B		P.	R		. P.	R	۸.	P.	R.	۸.	P.	R.	۸.	P.	R.	۸.	¥.	R.	۵.	P.	R	۸.	P.	R.	٨.
1	Calcutta	1	2 1		0	2	10	9	2	12	9	2	1	3	2	1	2	2	2	3	4	3	7	4	3	6	4	6	3	2	13	9	2	12	7	2	13
2	Serajgunge			L	0	2	3	0	2	2	0		•••								4	12	0	4	12	0	4	8	0	3	0	0	2	12	0.	3	1
3	Dacca	:			0	3	4	0	3	0	0	3	- 0	0	3	0	0	1	8	0	3	0	0	3	4	0	4	0	0	2	13	0	2	13	0	3	11
4	Naraingunge																				3	2	0	3	0	0				3	0	0	2	12	0		
	Chittagong		1 8	3 (,	3	8	0	3	12	0		•••			***			4.		8	6	0	8	8	0	4	10	0	2	10	0	2	12	0	3	0
6	Patna	{ 2	100		V	Re 2	5	6		5	3	}1	15	0	2	0	0	1	13	6	3	14	0	3	15	0	3	14	0	2	9	6	2	9	6	2	10
7	Balasore	2	8	(1	2	8	0	12	10	0	8	0	0	3	0	0	8	0	0	3,	4	0	3	4	0	8	0	0	2	5	0	2	5	0	2	7.
8	Pooree																	1888												1	14	3	1	14	8	2	5
9	Cuttack	1	10)	0	2	5	0	3	0	0	1		IR.	PAG PAG					1	3	10	0	8	10	0	3	10	0	2	2	0	2	2	0	2	5

CALCUTTA,
The 23rd September, 1890.

PRICES PER MAUND

Sorgh	OR CH	olum. gare.)	BAJR/ (Penn	OR C	UMRU. typhoi-
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R. A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.F.
2 4 0	2 1 9	2 8 0	3 7 4	3 5 0	3 4 0
•••	-	-			
•••				1	
2 1 0	2 0 0	2 0 0			
				e ""el	
				-	

OF 40 SEERS.

MARI	IA OR	RAGI.	ITALI	OR K AN MIL urla ita	LET.
Present return.	Next preceding return.	Corresponding return of last year.	Present return,	Next preceding return.	Corresponding return of last year,
R.A.P.	R. A.P.	R. A.P.	R. A. P.	R. A.P.	R. A.
2			4 2 3	4 6 0	2 41
	-			-	
-			-	-	
			-	1.4	
		1 11 0	2 3 (2 0 0	2 7
				-	
			•	-	

19326

the undermentioned Marts of Bengal on the 15th September, 1890.

				c.	ALZ	8						١.	OOD	EW	TR	1				5	EA	OR T	DJ	C	MS.			AIZE	R M	Ma			NDI	1	4	GA.	NA	St	ANA OB	LA	ADA
MARIS.		of last year.	Corresponding return		Next preceding return.			Present return,			of last year.	O	Charles Street Section	Next preceding return.			Present return.			Corresponding return of last year.	1	weak preceding return.		The second second	Fresant return.			Corresponding return of last year.		Next preceding return.			Present return.			of last year,	Corresponding pathen		Next preceding return.		
	P.	٨.	R.	P.		R	P.	٨.	R	P.	٨.	R.	P.	۸.	R.	P.	۸.	R	P.	. A.	1	A. P.	R.	P.	۸.	R.	P.	. 4.	P. R	۸.	R.	P.	۸.	R.	P.	A.1	R.	P.	۸.	R	. P.
Caloutta.	9	9	3	0	9	3	11	8	8	6	5	0	9	5	0	9	5	0	0	1	8	2	2	6	4	2	6	3	5 2	15	1	8	14	1	8	4	2	5	14	1	7
Serajgunge	0	14	8	0	11	3	0	11	3					•••			•••			•••		•			•••										0	4	3	0	4	2	1 0
Dacca.	0	15	3	0	2	4	0	2	4	0	4	0	0	6	0	0	5	0	0	12	0	8	3	0	4	3									0	U	3	0	4	3) (
Naraingun				0	12	3	0	12	3			100	0	8	0	0	8	0			0	8	3	0	8	3												0	8	3	8 (
Chittagong	0	12	3	0	14	8	0	14	3	0	7	0	4	5	0	4	5	0		•••													***		0	4	3	0	0	3	4 (
Patna.	0	13	8	0	10	3	6	9	3	0	5	0	0	6	0	0	6	0	0	12	6	4	1	0	0	2	0	12	6 1	14	1	0	1	2	6	13	1	0	0	2	0 (
Balasore.	0	14	3	0	14	3	0	14	8	6	4	0	6	4	0	6	4	0			2000				***									N.	0	12	2	0	12	2	2 (
Poorse.	0	12	8	0	12	3	0	12	3					•••						•••					•••	31	1000	•••	5 10				***				7		***	1	9
Cuttack.	0	12	3	0	0	4	0	0	4	0	8	0	0	8	0	0	8	0	0	2)	1 (1	0	0	2	1	•••	CHE N						0	0	2	0	10	2) (

Published for general information.

P. NOLAN, Secy. to the Goot. of Bengal.

Meteorological Report of the Province of Benga

								STATIC	ON OBS	ERVATION	VS.	Alexander		
		Atr	PRESSU	RB.	Wii	TD.	100 E 11 E 11			TEMPERA	TURE.			
District.	Representative station.	Mean barometric height, 8 A.M.	Mean reduced to sea-level,	Variation from mean.	Prevailing direc- tion.	Mean wind ve- locity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily tem- perature of weak.	Variation from normal mean of week,
•	Pooree Gopslpore	29.684 29.663	29·696 29·685	033	? Variable	967 247	90°7 89°2	13th Sep.	77'6 77'8	15th Sep. 16th	87:2 85:8	79°5 78°9	88'4 82'4	-1'6
Pooree {	False Point	29.688	29.710	012	ESE	226	89.0	13th	76'6	14, 15 & 18	86.7	77.5	82.1	-0.8
Cuttack	Cuttack	29'634	29.716	+1003	E	42	9114	13th .,	76.8	15, 16 & 18	88'6	77'7	83:2	-0.7
Balasore	Balasore	29.668	29 727	+.009	Calm	79	90'4	13 & 14	77.7	18 & 15 to	87.8	77.9	82°D	+0.8
South-West Midnapore?	Saugor Island	29'710	29.736	+.010	o to to	254	92.2	18th	78'0	19th Sep.	89 6	79'6	84.6	+0.4
South 24-Pergunnaha 5	Midnapore ac	29.590	29-741	+*010	E Variable	180	93.3	13th ,,	761	17th ,,	89:9	77:0	83.9	+0'4
sa-Pergunnaha}	Calcutta	29-726	29:748	+.019	ENE	79	91.0	13th	75:2	14th ,,	87'8	77.1	82'5	-0.9
Hooghly	Dandaga	29.660	29.760	+ '020	SE	78	94.6	13th	78.4	15, 17 & 19	90.2	791	84'8	+0.3
Burdwan	Burdwan	29.426	29:727	+ 019	ESE	123	94.1	13th	761	17th Sep.	89.0	77.0	83.3	-0.1
Bankoora	Bankoors				Е		N.B.B				89'6	77:8		
West Burdwan	Raneegunge	29.415	29:749	+ 025	ESE	79	94.2	1ith "	76'8	17th			83.7	-0.3
Moorshedabad	Berhampore	29.690	20*758	+ 017	В	87	91.7	13th	78'3	14 to 17 & 19th Sep.	89.3	78:7	84.1	+0.1
Nuddes	Krishnaghur	29.706	29.754	028	NSE & ESE	129	92.8*	14th*	76.3	lath*	89.9*	77:4"	Sa:7*	+0.5
Jassore	Jessore	29.724	29 758	+.002	SSE	81	91'8	13th .,	78.9	19th ,,	8910	79:8	84/5	+0.1
Chittagong	Chittagong	29'704	29*794	+1003	S	80	89:7	18th ,,	7517	15th .,	87:8	77'9	82 9	+1.0
Chittagong Hill Tracts	Demagiri					Sale B	ubsers	rations not re	oeived.		STATE OF			1742
Backergunge	Barrisal	29:747	29.759	+ '010	Calm &	68	90.8	13th Sep.	77:3	15th	87.5	79 1	83'3	+1.1
Noakholly	Noakholly	29.753	29.797	+*031	Easterly SE	105	88'5	18th .,	75.8	15 & 18 .,	86.6	77'8	82.8	+0.4
Furreedpore	Furreedpore	29.744	29'783	+*035	Calm	89	88.6	13 & 18 .,	78'4	14 & 16	87 4	79'8	83 6	+0.8
Daces	Dacca	29.746	29.769	+'013	SE -	111	9111	13 & 18	78.7	15 to 17 ,.	89.0	79.0	84'7	+0.7
Commillah	Commillah	29.750	29.786	+ 020	SE	76	91.3	13th	75'3	14 & 15 "	89.6	76'9	88'3	+0.6
Mymensingh	Mymensingh	29:724	29.783	+*021	* SE	70	91.3	18th	77.5	16th	8873	78'8"	83 6*	+0.8
Bogra	Bogra	29.692	29'756	+:089	Calm	57	91.3	Yell	78.1	15 & 16	87'8	79'0	84.0	+1.2
Pubna	Serajgunge	29'726	29.773	+ 026	SSE	61	89.6	7041	78'8	15 to 17	89.5	79:6	84'0	+0.7
Rajshahye	Rampore Beau-	29.694	29.764	+ '094	Variable	96	94.5	18th	77.5	15th	92.3	79.6	86'0	+1.7
Maldah "	Maldah	29.651	29.772	+ 015	SE E	50	92.6	18th	77'6	18th	80.0	79:5	84.7	+0.8
Dinagepore	Dinagepore :	19.663	29 789	+.020	Variable	52	93.8	18th .,	75.7	18 & 15	90'5	77.7	811	+1:0
Julpigoree t							92.4	18 & 19 ,,			80.0			
Julpigoree	Julpigoree	20.495	29.782	+.019	1	138		A Partie of	75.1	13, 14 & 19 sep.		75:9	82 5	+0.6
Darjeeling Hill Tracts	Darjeeling	22.971	No.	- '032	EVE	103	68'6	18 & 19 ,,	24.6	16th ,,	66.1	55:9	61.0	+017
Purneah}	Purneah	29.632	29.762	+ 025	Southerly	56	91.5	18 & 19 ,,	71'4	15th ,.	89.8	78'0	84.0	+0'4
Mozufferpore *	Mozufferpore	29:525	29.704	-	B	145	. 92'8	19th "	77.7	16th	90.2	79.7	85'1	
Durbhungs	Durbhunga	29'593	29.760	+ '628	Easterly	123	92.9	19th .,	77'5	15 & 16	90'8	70:1	85'0	+0.8
Chumparun	Motihari	297536	29*764	+ '041	ESE	153	94'2	19th "	78'8	15th	90 4	77.4	83*8	0
sarun	Chupra	29'533	29.726	+.010	SSE	134	94'3	14 & 16 ,,	77:6	16 & 17 ,.	91'2	80.1	85'6	+1.7
(Dehree	29:362	29'717	013	South- easterly.	119	95'8	14th "	76.0	15 & 16 ,,	90.7	77.8	84'2	+14
Shahabad {	Buxar Arrah	29°482 29°526	29.724	-'001 +'008	E	175	94.4	13th 13 & 14	74'8 69'77	16th	89.8	77'9	88'5	+01
Gya	Gya	29'841	29.720	*006	B	114	96.0	14th ,,	76'8	17th	94.0	79'0	86'0	+1'4
Patna	Bankipore	29.551	29 735	+:002	E	152	94'4	14th	75.7	17th	91.8	79'5	85 6	+62
South Bhagulpore?	Bhagulpore	29.576	29.739	+.019	Calm	14	93.2	13th	77-0	17th	90.6	78'3	84'5	+02
Monghyr 5						148	91'6					TOTAL SE	37.425	SSSII OT
Sonthal Pergunnaba	Doomks	29.253	29.752	+ '028	South easterly.	217	90.2	MISTORIAL STATES	76.5	14, 16 & 17 Sep.	8910	77'1	837	+0.0
Hazaribagh	Hazaribagh	27'732	2,4200	3300	SASE			13 & 14 ,,	71.2	17 to 19 ",	8516	72.1	78'9	+0.8
Manbhoom}	Ranchee	27.612	29:740	+.003	South- easterly.	130	88'5	13th	68.9	18 & 19 ,,	6318	70-2	77'0	0.4
Singbhoom	Chyebassa	26'972	29-740?	+*022	Calm	40	92:9	13th ,,	74.7	15 & 19	881	75.6	81.8	· ±0'8
1	Sibsagar	29.488	29.821	+ 027	& NE SW		941	18th .,	74:5	14th	88'8	767	8218	-02
Assain	Dhubri	29'668	29.785	+.001	NE	117	89.7	19th	77'8	13, 15 & 16	88.9	78'6	82'4	+03
· L	Silchar	29-691	29.795	+*010	Calm	0.80	95'6	17th	74'3	10th Sep.	0214	77'1	84'6	+13

Acans of six days.

Application. Surfacery.—The normal means of sir pressure and temperature are the arithmetical average or means of the reading during the same period for the left.

The homestic of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number are the number of the properties increase or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the period in the other average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the period for the period for the period for the period for the period in question during the period for the period fo

r the week ending Friday, the 19th of September 1890.

				AL T			DIST	LIUI OB	SERVATIO				Harris State	
	autount week.	in in			200			RAI	NFALL.					
	ud au	wee	OF '	WEEK.	Sine	e 1st of mon	th.	Sinc	ee 15th May	1890,	number days.	number days.	Representative station.	District.
	Average cloud at 8 A.M. for	Rainfall of week observing station.	Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation,	Mean for district.	Normal mean.	Variation,	Average nu of rainy d	Normal nu of rainy d		
	7.6 6.0	1.37		2.86		7:27			41-22			3.8	Pooree	Pooree
	7.7	2 54											False Point	rooree
	8.0	3 23		2.02		6'46			41.17			3.8	Cuttack	Cuttack
	6.7	3 54	3.84	2.88	4.97	7.22	-2.52	37.70	42'62	-4 92	5.7	3.7	Balasore	Balasore
	8.9	2.13	2'45	1 93	2'49	7:62	-5:13	86'44	48'40	-12.96	53	8.8	Saugor Island . {	South Wast Serv
	4.1	1.17	1'25	1'58	1.73	5*87	-3'64	86.47	43 51	-7.04	4'3	3.0	Midnapore	South 24-Pergunnans Midnapore
	8'0	1.27	1:12	1.34	2:21	5.68	-8'47	39'49	48.65	-4:16	3.8	32	Calcutta	24-Pergunnahe
							0.00	40.00	nnund					Hooghly
	8:3	1 31	0.75	1'23	4.22	5:09	0.24	48.73	39.26	+9'47	2.0	3.0	Burdwan	Burdwan
	7:0	2.13	1.65	1'74	2.55	5.83	-5.63		45'49	-5.55	3.2	3.3	Bankoora	Bankoora
	7.6	1.02	0.60	1.38	1.99	6.64	-4'65	47 21	44'78	+2.48	5.0	3′3	Rancegurge {	West Burdwar
	8.7	0.80	0.81	1.88	1'87	7.01	-5'14	44'79	42.03	+2.76	2.2	3.2	Berhampore	Moorshedabad
•	7.7	1'13	0.83	1 28	2'63	5.49	-2.86	38.79	40.88	-2:19	2.8	3.1	Krishnaghur	Nuddea
	7.7	0.63	1.50	1'85	2 01	5.86	-3.86	42'30	44'68	-2.38	3.2	3:2	Jessore}	Jessore ". "
8	61	8.24		2.01		9.85			99:36			4'2	Chittagong	Chittagone
	Maj.		11170	2'84		7.84		To all the	65'97			4.7	Demagiri	Chittagons Hill Tract
	7:8	2:25	1.78	2:02	2.08	7.55	-4.57	57:17	64.58	-7.09	3.8	36	Barrisal	Backergunge
	2.0	1.00	1.41	3.30	6.41	11.46	-5.02	81'46	91*47	-7:01	4.0	41	Noakholly	Nonkholle
	5:4	2.75	1.39	1'42	1'84	5 95	-4'11	85'64	46'99	-11'35	2.7	3.5	Furreedpore	Furreedpore
	7.9	1'40	1.20	1.97	2'22	7:30	-5'17	51.38	51.25	-0.14	3.2	3.1	Dacca	Dacca
	4'6	1'45	2.02	2.15	3:33	7'61	-4'31	51.75	58'11	-6'36	3.3	3'5	Commillah	Tipperah
	0.4	4'80	2.02	2*29	4.81	8'06	-3.52	61'88	57'72	+4.10	2.6	3.3	Mymensingb	Uymensingh
Ø	47.6	*.36	0.70	1.60	5:07	0.14	-1.07	22.25	47.99	+5*33	2.0	33	Bogra	Bogra
8	716	0'47	0.84	1.84	3.48	6.86	-2:38	39.87	44:37	-4.50	8.0	3 4	Serajgunge	Pubna "
	2.6	0.34	1.02	2'16	3.32	7.74	-4'42	53.07	44'77	+8.30	2.3	3.1	Rampore Beauleab	Rajshabye "
8	2.3	0.25	0.65	1'70	3.53	7.68	-4'45	44'81	46'34	-1.53	2.0	8.4	Maldah	Maldah
1	7.6	0 90	1.00	2 22	3.66	8.13	-4'47	56:55	40.39	+7.16	2.8	3.4	Dinagepore	Dinagepore
	2.0	2.61	0.65	2.13	6.94	8:49	-1.22		63.24	+5'11	1.2	3.3	Rungpore	Rungpore
	2.0	1.83	1.29	4.88	15.88	14'09	+1 29	130'32	97.00	+38'32	8.0	4'2	Julpigores {	Julpigoree
ğ	8:3	1.82	2.98	4'57	13.71	12 92	+0.49	142'48	107 43	+35.02	4.8	4.0	Darjeeling	Darjeeling Hill Tract
8	41	0'84	0.20	2.61	4'48	8'41	-3.03	64.77	50.38	+14:39	1.2	2.8	Purneah {	Parnesh North Bhagulpare
,	8.8	0.67	1/82	1.37	1.21	5'36	-3.80	45'11	85*84	+9-27	2.7	2.4	Mozufferpore	Mozufferpore
8	4'3	0.55	0.72	1.26	1.14	6.18	-5'04	51 00	37 84	+13.16	2.3	2'5	Durbhunga	Durbhunga
4	4.9	1.01	2.65	1.53	3.13	5.22	-2.00	56'79	38 82	+17.97	8.5	2.0	Motihari	Champaran
à.	2.6	0.25	2.82	1.35	2:82	474	-1.92	46:76	34-76	+12.00	3:3	26	Chupra	Sarun
2	4.0	0.76			ME W			(C)				a and	Dehree)	
4	5.4	0 95	1.23	1'54	1.90	4.00	-8.00	42'70	33:65	+9:05	2'8	2.7	Buxar {	Shahabad
0	57	0.22	0:79	1.02	0'84	4'54	-3.70	52'49	35.45	+17.01	2.3	2.3	Gya	Gya
,	5.6	1.19	1.71	1.00	2.03	4'48	-2.40	41.22	34.26	+6'65	2.0	2.6	Bankipore	Patna
	4'6	0.74	0.92	1:36	1'12	0.87	-4-25	45*06	36'71	+8'35	2.0	2.8		South Shagulpore
	13	ALC: U		No. PHONE	1.67		-5'68	47.55				图 图 为		Monghyr
Š	7.3	0.98	0.23	2.38	1.07	7°35 6°29	-0.08	47 00	43.26	+3:00	1.8	3'2	Doomes	Sonthal Pergunnaha
a	6.4	3.37	1'48	1.82	2.52	6'51	-4.50	41.23	48'29	-0.00	3.7	3.3	Hazaribagh	Lonardugga
9			1.87	1.67	2.79	5'40	-5.61	34'93	40.24	- 5.61	3.0	3.9	} Ranchi {	Manbhoom
	8.6	2.60	2'51	1.85	3'57	6.14	-2.90	28'60	45.18	-16.28	5.0	3.7	Onyebassa	Singbhoora
	91	1.75		1 1 9			E	Marie 1					Sibsagar	72.0
	6.7	0.13	07-12-3		1		1		N. A. S. S. S.	Carlo de		Wija.	Dhubri }	Assam
	8.0	7.73	1300	400		2 1 362 31	1	die.		CENT TO		The second	Sichar J	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of September 1890

					R	AINPALI				To	TAL				
Meteorological division,	District.	Station.	Saturday, 13th September.	Sunday, 14th September.	Monday, 15th September.	Tuesday, 16th Suptember.	Wednesday, 17th Septem- ber.	fhursday, 18th September.	Friday, 19th September.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fail since 15th May 1890.	Average rains from May date
GRIPSA	Pooree	Pooree Khurdah Banpur False Point Gop Satpara Pipli	0°50 1°24 0°98 1°45	# 20.58 0.15 0.81 0.28	0.99 0.07 3.04 0.08 0.25	0.28	1°30 0°10 0°35	0.05 0.13 1.50 0.33 0.28	0.18 0.18 0.50	5 6 7	1.92 0.87 2.54	8°52 8°31 8°48	6'89 7'68 6'71 7'81 9	43.01 51.30 30.47	35 44 37 46
	Outtack	Jagatsingpore Banki Cuttack Kendrapars Jajpore Dharmsala Salipore	0°18 0°37 0°09 1°81 0°10 0°60	0°40 0°24 1°68	3°55 0°47 0°22 1°84 0°30 1°14	0°15 0°77 4°10 1°36 0°09 0°27	0°01 0°31 0°21 0°70 0°17	0°17 0°14 0°04 0°22 0°56 0°15 0°41	0°43 0°06 0°12 0°19	4 7 7 8	4*89 5*29 4*00 4*70	6'84 6'86 6'71 6'24	5:58 7:01 7:23 5:71 6:79	47:23 57:50 35:41 37:60	\$5 \$19 46 41 43
	Balasore	Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah	0.44	1°30 0°40 0°05	0°17 0°85 2°40 1°19 1°81 1°82	1.05 2.09 0.36 0.25 0.95 0.21	0°85 0°84 0°65 0°73 0°87 0°51	0°25 0°60 0°08 0°81 0°12 0°15	0°15 0 70 0°33 0°40	6 5 7 6 5 5	3°56 4°53 4°79 3°36 4°25 2°54	5'04 9'00 5'14 3'69 4'42 2'54	7:36 7:04 7:13 7:28 7:17 7:32	34'41 40'56 39'81 37'50 36'63 37'11	40 41 40 45 45 46
SOUTH-WEST BENGAL.	Midnapore ,	Contai Saugor Island Tumlook Midnapore Ghattal Kukrahaty Garbetta	0.20	0°64 1°26 0°10 0°45 0°26 0°09	0°52 0°32 0°40 	0°58 0°24 0°40 0°52 0°54 0°68 0°47	0°02 0°11 0°10 0°45 0°07	0°74 0°20 0°20 0°23 0°08 0°34 1 0°18	0.04	6 5 6 8 4 4 8	2'49 2'13 1'40 1'20 1'14 1'60 0'74	2°56 2°13 1°90 1°97 1°31 1°96 0°74	7.63 7.66 6.08 4.97 5.07	33'12 35'46 40'50 36'54 33'99 28'29 34'37	47 51 43 46 46
	24-Pergunnals	Diamond Har- bour Canning Town Alipore Jail Barrackpore Dum-Dum Baraset Buseerhat	0'16	0.79 0.22 0.10	1°45 0°45 0°53 0°17 0°26 11°08	0°20 0°79 0°52 0°23	0°10 0°08 0°27 0°45	0°10 0°22 0°48 0°17	0°32 6°10 0°18 1°38 0°24	5 6 8 3 3	2'86 1'81 1'89 0'61 0 94 2'62 1'48	2.90 2.73 8.41 0.99 3.69 3.65	7'59 9 6'77 4'77 6'37 5'88	40.88 48.21 43.25 34.36 35.63 37.63 45.50	467 467 437 437 447 447
	Howrah	Howrah		0.02 0.10	0°05 0°20 0°14 0°18	0°09 0°19 0°32 0°09 0°14	0°16 0°49 0°31	0.61	0.17	5 8	0°73 1°02 0°81 0°55	3:03 0:82 1:76 1:32 2:63	5°74 6°19 5°48 5°10 4°79	85*75 46*04 86*65 85*99	435 417 427 467 467
	Burdwan	Culna Burdwan Cutwa Raneegunge Mankur		0.12 0.02 0.02	0°37 0°57	0°06 0°08 0°24	0°20 0°43 1°20 0°40	0.11		2 3 1 8	0°58 0°66 1°31 0°87 1°05 0°24	0'80 5'55 5'48 2'60 1'88 0'85	5:77 4:83 5:45 5:49 5:18	43'78 41'78 55'95 45'43 45'46 40'38	461 377 465 465 465
	Bankoora	Bankoora Bishenpore Maliara Khatra Indas Kotalpore Anda Gangajalghati Raipore Sonamukhi	0.20	0°46 0°90 0°07 0°22 0°95	0'43	0°31 0°13 0°30 1°40 0°32 8°13 1°88 0°65	0°94 0°96 0°05 0°39 0°37 0°66	0°20 0°40		4 2 4 4 2 4 1 8 8	2'14 1'09 1'38 2'06 0'87 1'60 3'13 2'94 1'37 0'46	4 04 1 21 1 33 2 31 1 24 1 60 8 28 2 94 1 98 0 97	5'41 6'11 4'85 7'05 9 P P	45'76 37'80 47'01 29'29 48'58 55'23 38'01 52'33 39'99 40'20	4178 4770 427 60%
	Seerbhoom	Bh. Scory Hetampore Rampore Haut Boipore Murarai			0°12 0°48	0.02	0.15			2 1 2 1	0°22 0°12 1°03 0°54 0°65	0°76 4°04 1°30 1°82 0°55	7:05 6:96 7:42	47*77 42*98 52*69 43*77 40*00	463 463 453
	Nuddea	Ranaghat Kishnaghur Chocadanga Meherpore Kooshtea	0°19	0.03 0.03	0'10,	0.06	0°54 0°79 0°35	0.08		4 3 3 1 3	0°82 1°14 1°05 0°55 0°60	4'94 3'49 1'18 0'55 2'98	4.70 5.13 6.65 4.91 6.09	41°88 45°15 31°91 37°10 37°93	50% 55% 41% 41%
	Jessore	Bagirhat Khoolna Nakipur Rampal		*0°38	0°42 0°59 0°35 0°19 1°21	0°34 0°38 0°15 0°50	0°21 0°19 0°17 0°27	0.27		4 5 3 4 8	1'35 1'78 1'63 2'06 1'58	2.68 2.16 2.18 3.19 2.24	5:55 7:13 6:74 9	45°95 52°63 42°21 54°04 48°20	\$ 22 £
	Moorshedabad	Jessore Jhenidah Magoorah Bongong	1	0'18 1'22 0'85 0'25	0.02 0.11	0°22 0°36 0°25	0.07 0.04 0.17 0.15			3 3 4 4 4	0°31 0°63 1°44 1°48 1°00	0°39 0°84 2°07 1°45 8°81	5°29 5°41 6°60 5°53 5 56	38'00 44'47 44'15 37'22 34'11	373 4378 4478 4178 4178
		Berhampore Laibagh Azimgunge Jungupore Laigoia Jiagunge Akirigunj Patkabari		0.69	0°07 0°25 0°09 10°70 1°15	0°42 0°51 0°20 0°70 0°10	0.10	0.30		3 2 2 3 4 1 2	0.86 0.67 0.15 1.12 1.90 0.70 0.70	0'41 1'23 1'71 3'05 1'59 3'24 4'32	6.34 6.79 7.24 6.69 7.77 7.28 2 7	47'02 44'32 48'13 44'54 36'93 47'86 46'42	
BARY BERGAL	Chittagong Unittagong Hill Tracts	Cox's Basar Chittagong Kutubdia Satkanya Rangmati Kuma	2:51 0:05 0:60 0:04	3°24 3°52 6°97 1°56 0°39	0.61 0.80	0°10 0°07	0.22	0.00 0.10	0.24	ō 4	6.18	10:34	10:60 9:10 10 10 10 10 10 10 10 10 10 10 10 10 1	(128°21	1177
	Backergunge	Patuakhally Perozepore Burrisal Bhola		0"15	0°48 0°42 0°82 0°65	0°15 0°80 0°54 0°56	0.03	1.00	0°20 0°08	4 4 4 8	1°83 1°43 2°09 1°30	3'89 2'29 8'37 1'96	7'43 9'05 7'03 6'67 7'43	65°10 52°86 54°63 55°63	ないのは

atement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of September 1890 -coatd.

				17	В	LAINVAL	IS III			T	OTAL.		Average		A
negrol orical Division.	District.	Station,	Saturday, 13th September.	Sunday, 14th September,	Monday, 15th September.	Tuesday 16th September.	Wednesday, 17th September.	Thursday, 18th September.	Friday, 19th September.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	total rain- iall from 1st of month.	Total rain- fall since 15th May 1890.	Average rainfall from 15th May to date.
ST BENGAL		Gournaddi Bauphal		0'45	0°40 0°60	0.33		0.05 1.45		2 4	0'45 2'83	0°72 4°22	9	59°92	;
	Noakholly	Noakholly Fenny Harishpore Ramganj	0.17	0°15 0°54 0°90 0°10	0°87 0°10	 :	:::::	0°58 0°36	0.02	4	1.65	5-81 7-06	11:18 11:73 P P	75'14 98'77	91.62 91.62
	Furrendpore	Madsripore Furreedpore Goslundo	0.12	1.02 1.11	0°22 1°24	0.51	0.03	0.18		1 4 3	0°18 1°42 2°56	0°65 1°69 3°17	5°42 6°66 5°77	31:77 39:79 35:41	49°17 49°17
	Daces	Munshigunge Dacca Naraingunge Manickgunge Joydebpore	0.07 0.04	0°60 0°16 1°29 0°34	0°10 0°26 0°24 1°77 1°02	0°11 0°50 0°36 0°16 0°01	****		0.33	3 8 4 4 8	0'81 1'08 0'88 3'26 1'37	2°08 1°63 1°27 3°88 5°85	8°50 6°89 8°51 5°67 P	52°26 48°17 56°73 49°49 57°74	59'18 50'44 53'87 42'58
	Hill Tipperal. Tipperah	Agartola Comilla Chandpore Brahmunberia Ramchandra-	1.55	0°80 1°10 0°05	0°42 0°17	0°28 0°75 0°03	0.25	.0.00	0.40	5 3 2 8	8°17 1°06 1°85 1°98	5°38 2°23 2°35 3°52	6'98 7'93 7'94 7'71	53°29 56°42 40°49 47°87	50°92 66°25 63°69 51°60
		pore Nasirnagar Daudkandi Kasba Laksham	0.02	0.50	0°26 1°20		0.08	0.18		6 2 Nil	2:75 0:49 Nil	3°72 1°24 '1°98	P P P	65°51 23°87 63°68	\$ p
	Mymensingh	Kishoregunge Atia (Tangail) Mymensingh Jamalpore Netrokons Subornakhally Durgapore	374	0°65 0°02 6 30	3°05 0°03 0°31 0°48 0°25	0.39 0.99 0.20			0.08	2 1 4 3 3 1	3.08 0.65 4.18 1.15 1.21 0.25	5'94 1'23 6'32 3'74 6'81 4'11	8'78 5'85 8'45 8'48 8'78 9	60°73 43°23 65°55 58°51 81°83 38°28	59'08 45'75 61'58 53'62 68'69 P
		Sherepore Town Dewanganj	0.41	0.74	0.18	0.88		===	0.20	1 3	0.20	3.57 0.97	7:11	48'92 52'91 34'55	44'56
NORTH BENGAL.	Pubna Bogra	Pubna Serajgunge Sherepore	0.37	0.12	0.08	0:03				3	0°48 0°49 0°89	5°48 7°48 4°99	6°60 5°83 4°87	45°11 56°98 49°73	48'60 48'78
		Nowkhilla Bogra Panchbibi	0,38		0.04	0.23				2 2	0.49	3.09	6'64 7'23	53'43 53'04	52.06 47.49
	Rajababye	Beauleah Nattore Naogaon Lalpore Manda	0.66		0°19 0°86 0°88 0°33 0°10	0°14 0°65 0°18				2 3 2 1 1	0°33 1°67 1°06 0°33 0°10	2.88 4.78 2.66 2.92 0.90	6:87 7:36 8:99 P	52'97 61'25 45'33 55'36 29'42	43'35 45'18 45'78 1
	Maldah	Maldah Chanchal Gajol Sibganj	*****		0°30 0°22 1°35 0°25	0°22 0°56 0°18				2 2 2 1	0°52 0°78 1°53 0°25	2*83 3*62 4*78 0*77	8*08 7*29 P	46°15 43°44 60°65 42°43	43.02 49.63
	Dinagepore	Mohadebpore Churamon Raigunge Dinagepore Baloorghat	0.18	0.59	0.81 1.02 0.52 0.52 0.09	0.52 0.15 0.62			0.84	4 9 2 3 3	1.19 1.09 0.50 0.40 1.87	1°12 5°26 2°85 3°32 5°76	7'54 9'55 7'95 7'80 7'81	42.53 59.32 66:08 61.34 53.51	49 06 46 46 51 09 54 94 45 49
	Rungpore	Thakoorgaon Banwanigunge (Gyabanda) Rungpore Kurigran			1.45 1.87 0.13	0°20 0°04				1 2 1	0°20 1°91 0°13	3'60 5'87 10'40	7·86 9·33 7·42	79:71 64:28 58:92 69:44	82.72 64.34 63.85
		Bagdogra (Nilphamari). Ulipore		012	0.38					2 1	0°37 6°38 2°78	7'79	9'37	81.85 63.11	78:25
	Julpigoree	Julpigoree Alipore Dooar Fallacotta Debiganj Bhagatpore	1.80	0.78	0.13	0.13 0.52 0.58			0°85 2°40 2°35	3 2 2 3	2.63 2.63 1.41 12.91	14'16 23'11 16'06 7'50	, P	165°24 124'07 90°20 160°97	103:30
	Cooch Behar.	(Nagrakatta) Dinhatta Cocch Behar	0.03	==	0.63 0.15 0.88	0.81			0.18 0.86	3 4 3 1	0°38 1°94 0°79	30°92 17'02 21'68 8'94	13'05 14'26 13'56	102 62 148 70 122 38 146 55	83'81 104'01 94'50 99'27
	Darjeeling Hili.	Mickilgunge Matabhanga Buxa Silliguri Darjeeling Kalimpong	0°01 0°04 1°35 0°08 0°14	0°06 0°48 0°04 0°05	0.08 0.08 0.08 0.08	0°10 0°07 0°08 0°36 0°57 0°22			0'33 4'01 1'32 0'05 0'72 0'14	5 5 4 5	0°57 5°09 3°51 1°85 1°45 1°74	15:09 22:01 20:18 6:12 6:49 10:81	13°28 21°66 10°88 12°03 7°12 P	184'43 164'51 129'73 101'80 167'43	170 66 93 61 94 47 70 96
RTH BRHAS	Purnesh	Kurseong Kissengunge Arrareah Purneah Gondwara	0.58		0.62	1.27 0.04				2 1 2	9°93 1°27 0°34	3'78 6'51 11'42	8.92 9.13 10.32	79:58 67:23 78:20	61.04 54.83 53.82 5
1. 数	North Bhagul-	Balarampore Mattari Kalinganj Maddapore Scopool Protabganj	1.26	0.08	078	0.30		0.50	0.50	2 2 Nii 1 Nii	0'81 0'40 1'56 Nil 0'43 Nil	3.76 8.62 14.75 Nil 0.75 1.80	7·02 6·65	55'11 101'21 51'01 58'10 40'54	41'36 41'48 2
	Durbhunga	Tajpore Durbhunga Madhabani Bahera		0.10	0'04	0.40	0.48			2 4 1 1 1	1°18 0°29 0°70 0°15	2°14 0°29 1°00 0°55	5:43 6:45 6:65 9	44.68 51.48 57.85 43.96 42.11	36'34 38'91 38'06 1
	Mosufferpore	Roshera Sitamarhi Mozufferpore Hajipore Pars Mahsa Siuhar		0.32	0°60 0°47 0°06 0°15 0°47 2.05	0°95 0°14 1°24 0°50 0°35 0°35	0.45 1.10 0.12 0.00			1 3 4 2 3 3	1'65 0'47 0'62 2'88 1'70 1'29 2'55 U'49	1°65 0°84 0°84 2°88 2°04 1°56 2°75 0°49	6.11 5.51 4.05 5	43'88 49' 25 42'00 52'92 40'50 41'68 44'49	36'42 37'66 33'95

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of September 1890—cond

					R	AINFALI				To	AL,				
Meteorelogical Division.	District.	Station,	Saturday, 13th September.	Sunday, 14th September.	Monday, 15th September.	Inesday, 16th September.	Wednesday, 17th Sept.	Thursday, 18th September,	Friday, 19th September.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rain- fall from 1st of month.	Total rainfall since 18th May 1890.	Average rainifrom Mar dat
NORTH BRIAR -concluded.	Chumparun	Motihari Bettiah Bagaha Burhurwa		1.08 1.05 1.05	1°26 0°45 5°52 0°06	0°19 1°20 6°78 1°13	0°48 0°68 0°42 1°30			3 4 4 4	1'88 3 41 7'74 3'64	1'88 4'35 9'44 8'38	5'87 4'56 ? ?	56.82 56.72 76.94 50.64	3.
	Sarun	Gopalgunge Se ** h	0°12 4°41	0.98	0.81	0.18				4 4	2.07 0.88	2°67 5°88	4'96 5'01	45°68 53°80	3.8
SOUTH BRHAR	Shahabad	Chupraii Bux r Dehree Bhabooah Sasseram Arrah Mohaniah		0°29 0°35 0°36 0°36 0°36	0°39 0°05 0°05 0°09	0°12 1°70 0°43 2°20 0°65 1°10	0.07			202222	0°51 1°99 0°76 2°35 1°62 1°51 1°20	0°51 1°99 0°76 2°35 1°02 3°35 1°20	4.23 4.93 6.33 4.67 4.45 4.57	41°29 44°20 38°26 30°24 37°61 08°70 20°37	8. 2. 3. 3. 3.
	Gya	Aurungabad, Gya Nowadah Jehanabad	0.01		0.19	0.39 0.39 0.39	0°15 6°53 0°14 6°27			3 1 2 3	1°52 0°53 0°44 0°67	1.52 0.53 0.65 0.67	4°94 4°83 4 64 8′78	55°47 64°21 61°26 40°03	34 34 34 34
		Arwol Daudnagar Sherrghati Rajauli PakriBarawan		0.30	0.40	0.50 0.10 0.33 0.50	0°45 0°15			3 2 2 1	0°90 0°55 0°45 0°90	0°90 6°55 0°48 0°90	P	25°85 31°68 41 80 48°48	
	Patna .	Patna Immpore Kehar Barrh Bickram Hilso	011	0°03	0.32	0°65 2°95 0°83 1°40 0°84 2°67	0.23	"0'14		3 2 2 1 3 2	1°19 5°20 1°05 1°40 1°04 2°81	1'35 3'20 2'15 1'40 1'04 2'81	4°84 4°08 4°77 4°59 2	45 41 43 82 40 11 35 60 52 38 44 73	34 34 35 31
	Monghyr	Begooserai Monshyr Jamui Gogri Sheikpura			0.80	0°40 0°67 0°56 0°45	0°84 0°84 0°32 0°67 0°18			2 2 2 2 3 1	0.79 1.50 0.85 1.38 0.18	1'41 1'50 0'88 1'38 0':8	4.96 6.36 4.93 9	37.60 47.18 54.01 65.89 41.84	59 87
	South Bhagul- pore.	Banka Kelgong Bangaon		===	0.25	0:65 0:06 0:00	0.06		0-11	2 3	0°71 0°88 1°26	0.80 1.00 1.80	5.58 5.07 9	50°48 55°98 49°66	38 38
	Sonthal Per gunnahs.	Rajmehal Godda Pakour Nya Doomka Deoghur Jamtara Mohagama Nannat	0.02		0.82	0°16 0°11 0°65 0°36 0°15 0°15	0°30 0°13 0°16 0°12			Nil 2 2 3 3 2 2	Nil 6'46 6'93 0'98 0'52 0'27	2°41 0°40 2°11 2°96 0°90 1°08	8 99 6:32 9:80 7:78 6:01 5:21	40.07 41.90 53.38 57.92 40.89 51.16	4 4 4 5 5 7
CHUTTA NAG-	Hazaribagh	Pachamba	******		0°15	0.10	0.27		*****	. 5	0'58	1.99	0132	47.52	40
		Hazarioagh Semtaguran Mahudi Hil s Jhoomra Hills			1.00	1.31	0.70	. 0.03	******	S 2	2.04	2'04	5:87 5:66 5:49 8:10	49'90 33'20	23 21 23
		Chatra Karaydaha Kamghar		0.07	0.78 0.33	0.10 0.20 0.60	0°23 0°42 0°33 1°20			2 3 4 1	0.83 1.67 6.83 1.20	1°21 1°67 0°95 1°20		48.76 43.14 49.33 39.86	
	Lohardugga	Lohardugga Banchi Pala-now Stili Balumat Hossetnabad Garwah		2:63	0°38 0°07 0°30	0°50 2°05 0°17 0°60	0°35 0°28 0°06 1°80	0.05		3 5 3 2	1.53 2.53 0.53 2.40	2°18 3°37 1°20 2°40	7.58 6.44 5.57	47.68 35.11 40.94 32.70	43 44 36
	Singbhoom ".	Chyebassa		0.02	1.06	1'04	0.50	0.02		5	2:51	3'57	6-17	28:00	4
		pore. Ghatvilla Baharagura	0:30	0°42 0°15	0°80 0°41	0.30	0°10 0°57	0.522		6	1.67	2:40	- 1	89'44	
	Manbhoom	Pavulia Gobindpore Raghungth- pore.			0.20	1'74 0'02 1'10	0.16	0°14 0°77		3 2 2	2'04 1'69 1'60	2°50 3°07 3°35	9.60 9.60 2.50	38°10 31°74 53°87	42 35
		burrabasom Jhalda Chus	*****	*****	0°80 0°25	0.20 0.21 1.50	0°34 0°19 0°38		0.15	4 3 2	1.76 1.15 1.58	2°03 1°96 1°68	P P	38'80 49'31 41'14	

Brplanation.indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the return for any day has not been received, the corresponding space is left blank.

CALCUTTA, the 23rd September 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 19TH OF SEPTEMBER 1890.

THE only noteworthy peculiarities in the weather during the past week are:-

(1) The shallow depression which gradually formed over Orissa and the adjacent part of the Bay, and which, after being displaced southwards by the rapid rise of pressure in Northern India about the middle of the week, intensified slightly in the Circars, but practically

filled up on the 19th, the last day of the week.

(2) The scattered rainfall in all districts except Orissa, with heavier and more general showers on Monday and Tuesday in the eastern districts and on Tuesday and Wednesday

in the west of the province, the total falls being deficient except in Orissa

As the shallow depression remained to the south-west of Bengal throughout the week, the wind circulation has been almost unchanged except in the south-west corner where, from northerly, directions changed to east about the middle of the week, when the depression was displaced to the south. On the last two days the tendency was for southerly winds to set in at the inland stations, as pressure was falling in the west of Behar and was very little higher than in the Circars, where the low-pressure area was filling up. On Sunday the 14th, pressure was changing very slightly, and was only two or three-hundredths of an inch below the normal. South-easterly winds were blowing at all stations, and the air was heavily charged with moisture in the east, as very heavy rain was falling at Akyab, Chittagong, and Silchar. On the 15th lowest pressure at False Point, and the depressure seemed to be moving towards the north, while rainfall had become fairly heavy and general in East and North Bengel. Gradients were steeper over the Bay and about normal in Bengal, but on the following day a rapid rise of pressure commenced in the north, continuing on the 17th, whereby gradients became steeper in Bengal, and strongly easterly winds, but of only average velocity, blew over the whole province. After that lowest pressure was at Vizagapatam, and increased on the 17th from 29.619 to 29.717 inches, and winds from being north or west in Orissa changed to east as at the other Bengal stations. Rainfall had almost ceased at eastern stations on the 17th, but was fairly general in South-West Bengal, Orissa, and Behar, amounts however being generally small. The depression intensified somewhat on the 18th, the centre being still close to Vizagapatam, moderately heavy rain falling in the Circars; but in Bengal its influence was ceasing and wind directions were becoming southerly. On Friday southerly winds were blowing at nearly all stations, and though showers continued in Orissa, South-West Bengal, and part of North Bengal, in the other districts rainfall was practically absent

in the other districts rainfall was practically absent.

Pressure—On an average has been slightly above the normal, and changes have been small except in the middle of the week when the rapid rise occurred, commencing in the northern districts. On the 16th the rise was about 12 inch in North Bengal, and slightly under a tenth in East Bengal, but diminished to less than '05 inch in Chutia Nagpur. On the 17th the most rapid rise was in Chutia Nagpur, where it exceeded '17 inch, and from there it gradually diminished to '07 inch in North and East Bengal and '12 inch in Orissa. The wave appears to have entered the province from the north-east and crossed towards the south-west. Mean pressure is below the normal at Gopalpur, False Point and the stations

in the west of Behar, and above elsewhere by small amounts ranging up to 04 inch.

Temperature—On an average has been below the normal in Orissa, practically normal in Chutia Nagpur and South-West Bengal, and above the normal in the other districts, by '7° in Behar, '8° in East Bengal, and 1° in North Bengal.

Rainfall—Has been above the normal in Orissa by nearly one inch, and below in all the other districts by less than half an inch, except North Bengal, where defect is 1.66 inches, the average fall being only '92 inch. The average fall in Orissa is 3.66 inches, in East Bengal 1.96 inches, in Chutia Nagpur 1.58 inches, and in the other districts, except North Bengal, between 1 and 1.5 inches. As stated above, almost general rain has been received Bengal, between I and 1.5 inches. As stated above, almost general rain has been received in Orissa and the adjacent parts of South-West Bengal throughout the week, and that general rainfall elsewhere was chiefly on Monday and Tuesday in the eastern districts, and on Tuesday and Wednesday elsewhere. The falls at the various stations are very irregular, but in many cases do not exceed I inch, and only in a few 2 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 19th of September 1890:—

			TEMP	ERATU	RE.					R	AINVA	LL.				
	g week.	week.	Avera	ges for	week.	above or week,	(Of wee	k.	Ra	iny da	ув.	Since of mo			9 15th 1890.
METHOROLOGICAL DIVISIONS.	Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week below normal mean of	Average.	Normal average.	Variation.	Average number in week.	Normal average num- ber in week.	Variation.	Average.	Normal average.	Average.	Normal gverage,
Orissa	91'4	76'6	87*2	78'8	82.8	-0.6	3.66	2.78	+0.88	5'5	8.8	+1.7	5'80	6.98	40*64	41.20
South-West Bengal	94'6	75.9	89'4	78:3	88'9	+0.1	1'14	1.49	-0.35	3.3	3'2	+0.1	2'30	6.03	41'58	43.63
Rast Bengal	91.3	75'3	88'1	78'6	83*4	+0'8	1.96	5.18	-0.22	8.2	87	-0.3	4.09	7.96	61.26	63.01
North Bengal	94.5	75'1	89.6	78'9	84'8	+1'1	0.85	2.28	-1.66	2'4	3.4	-1.0	6:66	6.88	70.00	59:60
North Behar	94'3	71.4	9015	78'9	847	+0.7	1'43	1.77	-0:34	2'4	2.5	-0.1	2.82	6.33	54'14	40'90
South Benar	96.0	69.77	90'9	78'1	84'5	+0.7	1.06	1.22	-0:49	8.8	2.7	-0.2	1.23	5'49	45'81	37.21
Chutia Nagpur	90.2	68.9*	84'7"	71:2*	78'0"	-01*	1.28	1'81	-0.53	81	3.2	-04	2.21	617	39.05	42:57

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;

C. LITTLE,

The 23rd September 1890.

Offg. Meteorological Reporter to the Govt. of Bengal

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 14th to 20th September 1890.

	2 (14)	A.M.	90 300		ТЕМР	ERATURE.			E	I YGBOMETR	x.	ours.
Монти.	Date.	Pressure at 10 A.M. corrected and reduced to 82° Fahr.	Daily mean.	Maximum.	Range.	Minimum,	Dry bulb at 10	Wet bulb at 10	Vapour pressure at 10 a.m.	Dew point at 10 a.m.	Humidity at 10	Rainfall past 24 hours
		Inches.			•	0	0	4	Inches.	0	1 %	Inches
September	14th 15th 16th 17th 18th 19th 20th	29-696 -638 -721 -827 -818 -782 -760	81·4 83·8 84·8 83·7 83·7 83·0 84·0	87·0 89·8 89·0 89·0 89·0 88·2 89·2	11.8 12.0 9.4 10.7 10.7 10.4 10.4	75-7 77-8 79-6 78-3 78-3 77-8 78-8	79·6 87·6 83·8 87·1 84·6 86·1 86·4	78-8 82-3 80-5 81-0 81-5 80-5 81-5	952 1 034 998 977 1 035 967 1 010	77·7 80·3 79·2 78·5 80·3 78·2 79·5	94 79 86 76 87 78 80	0.90 0.30 0.53 0.06

TO SELECT THE RESIDENCE OF THE PROPERTY OF THE	CEPHELIHOU		100	Inches.
The mean 10 A.M. pressure of the seven days				29.749
The mean temperature of the seven days				*83.4
The extreme variation of temperature			SOUNDAL S	14.1
The maximum temperature	4.			89.8
m 10 - leties bumility of the sec				% 83
The mean 10 a.m. relative humidity of the sev	ven days		100	ELLIVER STREET, STREET
mi	1 10	000		Inches.

The total fall of rain from 14th to 20th September 1890 ... 1.86

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, INDIA; The 22nd September 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 14th to 20th September 1890.

			jo W	eter		TEMPE	BATURE			Нудвог	HETRY.		WIND.			
Month.	Date.	Maximum in sun.	Number of hours bright sunshine,	Mean pressure barometer at 32° Fahr.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Weather.
		0		Inches.	0	0	0	0	0	Inches	0	%			Inches.	
Sept.	14th	133.5	0.2	29-639	80.6	83.8	8:6	75.2	78.5	0.946	77:5	90	E by S, ESE and calm.	64	0.49	Chiefly cloudy, o, g, d, p.
11	15th	156-5	5.3	-587	82-2	87.5	10.8	77:2	79-3	1964	78-1	88	E by N and E	148	0-23	Partially cloudy, o, g, d, p, t,
11	16th	151-2	5.4	-672	82-8	87.5	10.1	77.4	79.4	-961	78-0	86	E by S, ESE and SE by S.	141	0-09	Partially clouds o, g, d, p
11	17th	146.8	4.4	778	82:9	87.5	9.9	77-6	79-6	973	78-4	87	E and calm	69	0.48	Chiefly cloudy,
.,,	18th	142.5	17	750	82.0	87-5	10.2	77:3	79-4	971	78.3	89	ESE and calm	48	0.22	Chiefly cloudy,
n	19th	153-5	5.1	-781	82.4	87.5	10.7	76-8	79-4	967	78-2	88	SSW and calm	38	0.01	Partially cloudy,
n	20th	150·5	5.4	-701	82.2	87.5	10.6	76-9	78-8	940	77.8	85	Calm and variable	51	Nil	Partially cloudy,

The second the second section of	STSWING AND A		1918/10:5E(7	Inches.
on of the seven days		•••	2	29.693
The mean pressure of the seven days The average pressure of the corresponding period for	24 vears, S	G.'s Office	2	9.679
The average pressure of the corresponding person				Hours.
				27.5
	COMPANY TO SE			
The total number of hours of sunshine	•••			85.4
				82 2
The mean temperature of the seven days	for 24 vest	8. SG.'s Of	lice	83.3
The mean temperature of the seven days The average temperature of the corresponding period	101 22 304			12.3
The extreme variation of temperature		The state of the s		87.5
The maximum temperature	77	***	HIGHES IS	Miles.
				40000000000000000000000000000000000000
The highest velocity of the wind in one hour				15
The mightest velocity of				lbs.
The highest pressure of wind on one square foot		***		9
The highest pressure of mind of one				%
- 1. tim hamiditar				88
The mean relative humidity The average relative humidity of the corresponding p	eriod for 2	4 years, SG	.'8	
				86
Office				Inches.
The total fall of rain from 14th to 20th September 18	390		***	1 52
The everege fall of the corresponding period for 24 ye	allo, 00.	Office	***	2.31
cm 1 1 1 fell from let lanuary to ZULA Deptember 10	U.U			42.75
The same of the corresponding Deriod for 24 ye	suis, ou.	Office		55.95
The average fall of the college and from the	troppe of	the Barogr	aph and	Thermoo

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 55.95

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III. IV. and V of the official tables converted.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overeast; g, gloomy; d, drizzling rain; p, passing temporary showers; t, thunder; A, dew. N B.—In the weekly report from 31st August to 6th September 1890 read "897" for "89" as the maximum of the 1st, and also good "1017" for "10-17" as the vapour tension of the 2nd September 1890.

J. H. GILLILAND,

For Meteorological Reporter to the Got. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 22nd September 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 6th September 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 6th September 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 26.3 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.5 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885—vide the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per	2819	24.1	18'2	23.6	19:1	22'8	26-3

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

	1	VEEKS E	NDING-				WEEKS E	NDING-	
Towns.	16th August 1899.	23rd August 1890.	30th August 1890.	6th Sept. 1890.	Towne,	16th August 1890.	28rd August 1890.	30th August 1890.	6th Sept. 1890.
Burdwan Midnapore Hughli and Chinsurah Serampore Utterpara Howrah Bali Krishnagar Ranaghat Santipore Jessore Rampore Beauleah Durjiling Dacca	15'8 12'4 6'6 23'6 18'3 7'9 13'3 6'0 14'0 14'0 36'8 22'2 17'5	16'8 18'6 14'8 13'7 37'7 21'8 21'1 15'0 12'0 14'0 12'2 34'2 88 9 10'4	27:5 17:9 29:5 31:4 9:4 17:2 14:0 11:4 7:0 42:0 133:4 16:9	53'4 17'0 39'4 39'3 37'3 13'2 10'5 34'1 6'0 22'8 34'2 20'6 11'7	Chitteeong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Wonghyr Purneah Poori	33°1 16'4 11'6 13'6 28'7 26'3 18'2 18'1 12'1 12'1 25'3 40'7 6'9 6'3	16'8 9'4 19'3 15'3 31'4 41'9 18'2 18'9 18'1 24'4 37'1 12'6	12'4 4'7 34'7 10'1 26'0 16'7 9'7 87'0 4'0 25'5 28'0 10'4 4'2	29:0 6:4 97:0 17:2 30:1 79:0 25:2 22:0 25:2 20:8 45:2 20:8 10:2

It will be seen that last week the highest birth-rate was returned from Arrah (79*), and the lowest from Ranaghat (6'). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 28.4 per 1,000 of the population. The rate of the week is 2.8 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887 and 1889—vide the figures below—

	1885,	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1800.
Ratio of deaths per 1,000 of the population per annum	42'5	2974	22.7	85.7	25'5	81.2	28'4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

		,	VERKS 1	ENDING-			WHERS ENDING-			
Towns,		16th August 1890.	2%rd August 1890.	30th August 1890.	6th Sept. 1890.	Towns.	16th August 1890.	23rd August 1890.	30th August 1896.	6th Sept. 1890.
Burdwan Midnapore Hughli and Chinsurah Serampore Utterpara Howrah Ball Krishnacar Eanaghat Santipore Jessore Rampore Beauleah Darjiling Dacoa		10°7 17°0 31°2 53°4 57°7 19°5 24°6 11°6 12°0 14°0 18°4 34°2 66°7 20°1	16'8 23'2 19'7 49'1 18'9 17'8 28'1 16'1 20'9 26'3 55'1 26'3 37'0 24'7	24'4 9'3 36'1 33'4 28'3 19'5 31'0 9'5 12'0 8'8 18'4 21'0 44'5 20'1	16'8 17'0 18'1 43'2 28'3 10'9 14'0 11'4 12'0 15'8 36'7 18'4 59'3 13'0	Narainganj Chittagong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Monghyr Puruean Poori	16.6 21.1 23.1 16.3 66.7 13.2 20.7 27.5 15.1 24.4 21.7 13.9 25.2	24'8 16'4 26'0 20'4 66'3 12'0 25'5 14'9 16'1 12'6 22'6 24'2 42'0	12'4 9'4 11'6 16'2 58'7 8'4 19'5 44'8 11'1 19'0 21'7 20'8 25'2	16.6 18.8 19.8 26.9 58.1 29.9 20.7 39.3 62.5 23.5 27.1 10.4 48.3

It will be seen that last week the highest mortality occurred in the town of Chupra (82.5) and the lowest in Purneah (10.4).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Chole	era.	Small-pox.		Fever		Bowel-co	mplaints.	Other can	1868.
	Ratio I		Ratio per mille.		Ratio p		Ratio pe	r.	Ratio pe
Durbhanga Patna City Gya	18·1 11·0 9·6 9·6	Mozufferpore	D	arjiling .	30·6 29·6 27·3		29.6	Poori Gya Serampore Chupra Midnapore	23·1 19·8 17·7 13·1 10·8

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 7. from cholera, against 3. per 1,000 in the preceding week; 3 from small-pox, against 1; 10.5 from fever, against 9.4; 3.4 from bowel-complaints, against 4.3; 4 from injury, against 3; and 6.8 from other causes, against 5.8 in the preceding week.

The mortality of last week according to Sex, Class, and Age was as follows:—

According to Sex.		According t	to Class.		According to A	ge.	
	Ratio per mille.			Ratio per		1	Ratio per mille,
Males Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	28.6 28.2	Christians Hindus Mahomedans		7.5 28.8 28.1	Under 1 year 1 and under 5 years 5		192·6 57·1 21·7 11·3 14·1 16·3 15·7 19·5 32·2 64·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 22nd September 1890.

Sanitary Commissioner for Bengal.

									•						-			1		S. C.		*				0.	10		11		118
					-									120					×	ORTA	MORTALITY ACCORDING TO	ACCO	RDIN	0 TO-							
			POPU	POPULATION	×.			81	BIRTHS.										Disease	ė					-ndo	-aud	107.		Set		
	NAMES OF					NUMBER OF	ER OF		BATIO PRE 1,000 OF POPULATION PRE ANNUM.	LATION INDE				DR	Вил тна у вом	BOK-			RAS	RATIO PER		1,000 OP POPULATION ANNUM.	PULAT	TON PER	d 10 000 t	out at a	DEATHS.	AND STREET	RATIO PER 1,000 OF POPULATION PER ANNUM.	OF EGATO	propor-
DISTRICTS	TIES,		Males.	Penneles.	.fatoT	Males.	Females.	Total	Malos.	Fomales.	divid elam to oitast	100 female births.	smell-pox.	Perers.	Bowel-complaints.	-Linfurg.	Other diseases.	*sosnno 21V	Cholora.	small-pox.	Вечота.	Bowel-complaints.	-KanjuI	Other diseases.	All causes. Ratio of deaths per	Ratio of description bet annua	Males.	Femnles.	Males.	Females.	density of male de desired on the control on the control on the control on the control on the total male and the total male and the control of the control o
Burdwan	Bardwan		18,063	16,617	34,080	06	13	85	30.5	22.9 53	53.4	133			-	1	1	"	1	1	10.7	9.3	1	1.5	8.91	24.4	4	•	20.3	13.0	155
a	Midnapore	-	1100	200	88,560	95	00	111	4.6 1	12.4 17	0.41	37			03	1	-	11	1	i	8.1	8.1		8.01	0-41	80	91	6	6.1	1.83	12
	Hughli and Chinsu-	_	100-	2071	31,687	-	17	7.5	11.5	27.9 35	\$.68	41			10			n	1	1	90	80	1	9.9	1.81	36.1	0	10	19.7	16.4	120
	rah. Serampore	_	1406		26,496	13	wo	50	1 9.83	15.7 38	39.3	150			80	1	o,	05	1	1	157	8.6		17.71	43.5	33.4	14	90	53.7	62.03	100
Serampore	Utterpara	-	1000	9,464	6,510	Ø4	61	7	18.8	18.8	87.7	100	-	1			1	89	9.4	i	1	9.4	(See	9.4	8.83	8.83	01	1	34.1	1.13	191
	Howrsh	100	53,155 3	87,660	818,06	=	128	50	6.3	6.9	13.5	16	1	1	1		00	19	I	1	4.0	90 61	1	9.9	6.01	9.61	14	9	13-7	6.9	198
Howrah {	Balli	1	7,836	6,979	14,815	01	1	00	2.0	3.2	2.01	500		,	1	73	-	7	:	1	2.2	0.4	-	10.50	14.0	31.6	60	1	6.61	2.2	2962
	Krishnsgar	1	13,263	14,914	27,477	6	0	18	12.0	17.0 8.	34.1	100			:	1	60	6	1	:	6.1	1	1	2.2	114	9.6	4	63	157	7.8	215
Nudden	Ranaghat		4,028	4,655	8,683	-	4	-	0.9	-	6.0 Nofe	th.			01	1	1	05	1		12.0		1	i	18-0	12.0	i	01		80.00	No ma
	Santipore	18	18,708	626,91	29,687	•	9	13	12.3	10.0	8.83	116	03	*	10		-	0	29.22	1	90	1.1	1	1.1	15.8	8.8	10	•	19.0	13.0	146
Jessore	Jessore	:	4.830	3,685	8,495				-			1			10			9	1	*	30.6	*	1.9	1	2.98	18.4	1.	10	8.01	6.04	9
Raishahye	Rampore Beauleah	-	10,766	9,025	19,791	10	63	13	8.93	7.9 84	34.5	383			9	1	-		1		15.8		1	9.8	F-81	21.0	03	10	2	8.88	. 88
Darjiling	Darfiling	1	4,579	2,439	7,018	00	1	7	01	1.4	9.68	306			•		1	20	i	1	58.6	9.63	1	1	8.69	9.44	9	91	1.89	42.6	159
)	Dacen	4	43,789 8	87,879	191,08	6	Ø.	18	8.9	5.8	11.7	100	94	*	6	10	93	80	1.3	i	90	01	9.	1.6	13.0	20.1	27	so.	14.6	11.1	151
} soora	Narainganj		2,605	4,956	12,561	01	10		8.8		0.65	40	100	it.	1	91	-	4	i	1	4.1	8.3		13	9-91	12.4	60	-	20.2	9.91	195
Chittagong	Chittagong	118	18,840	8,790	22,130	1	•	7	•	9.4	No F.6	male .	THE REAL PROPERTY.	100	*	£ 20	01	90	1	1	7.6	4.7		4.1	18.8	9.4	ю	80	19.9	17.1	110
Toperah	Comillah	:	8,168	5,353	13,506	1G	01		19.8	7.7	97.0	230	1186 273			1	1	10	1	1	15.4		1	8.0	19.8	9.11	*	1	9.95	9.7	262
Patns	Patna City	12	8 297,87	81,475	160,237	25	13	63	0.11	6.5 13	17-9	179	3.4	-	1 8	21	18	83	11.0		8.9	9.5	.3	8.9	6-98	19.5	8	40	5.82	2.22	111
Gyn	Gys	*	38,990 3	37,881	76,121	23	12	44	15-7 1	14.3 36	30.1	100	14	100	0	1	68	8.5	9.6	1	27.3	1.4	1	18.8	1.89	58.7	8	46	63.0	2.89	88
Shahabad	Arresh	96	20,960	23,505	43,465	25	81	99	8 6.19	37.1 7.8	29.0	118	90		II	5	10	25	9.6	1	18.1	1	1.70	0.9	6.68	8.4	14	=	24.1	7.93	136
Mozufferpore.	Mozufferpore		18,084	19,658	48,748	10	=	18	18.1	18.4 25	2.28	16	10	9	9		60	17	6.1	7.3	6.7	1	1.5	3.6	2002	19.9	27	40	27.0	13.5	506
Durbhanga	Durbhanga	33	88,774 8	32,322	960,39	13	15	88	10.5	8.11	0.55	98		-	8		60	99	18:1	i	141	4.7	1	47	39.3	8.44	11	83	26.2	1.89	40
	Chupra	1	25,116 2	26,554	01,670	1	18	255	7.0 18	18.1	6.28	88	23	-	0	-	13	80	83.3	1	10.1	0.9	1.0	1:21	82.5	11.11	8	35	1.66	9.99	149
Shagulpore	Bhagulpore	- 1	29,640 3	87,818	824,78	14	- 50	84	187 18	18.1 30	8.08	70			9	-	9	36			14.5	3.6		5.4	33.2	0.61	13	13	85.5	21.3	88
Monghyr	Monghyr	28	28,154 2	998,98	57,520	19	31	60	17-9 -2	28.0 46	46.2	119	1	,	19	1 2	60	30	9	;	13.6	10 19	6	1.3	1.48	21.1	15	15	27.7	9.98	104
	Purnesh		8,463	6,553	15,616	00	97	9	10.4 H	10.4 20	8.08	901	191		1 00	1		60		1	10.4	-		1	F-01	8.02	1	93	1.9	15-9	33
200	Poori		2000	11,637	24,784		1	10	8.4	2.1 10	10.2	009		-	0	1	П	23		:	1879	4.5	12.	23.1	48.3	20.5	11	125	48.5	1.49	8
the state of the	The same	-	T	- Parine	-	T	T	1	1		1			1	1	1	1	-	1		1	Ī	1	1	1	1	i	i	1		-

	engal.
	Bei
alth, Camb.,	esioner for
He	Commi
Publ.	Sanitary
, Dip.	Sa
GREGG	
H. G.	
W.	

		1000							(cj)		A Res				MOR	MORTALITY	11 Sec. 24	COED	ACCORDING TO	-0										rizz
						Cla	Class.												强		•	Age.								2000
DISTRICTS.	NAMES OF MUNICIPALI.		DEAS	DRATHS AMONG-	-BNO		RATH	TION I	1,000 o	RATIO PER 1,000 OF POPULA- TION PER ANNUM.	i				DR	DRATES.							RATIO 1	PES 1,000	40	POPULATION	PER	ANNUM.		
		Obvistinns.	.enbaiH	Mahomedana.	Buddhists.	Огрек сјванов.	Ohristians.	Hindus.	Mahomodans.	Buddhiste.	Other classes.	Under 1 year.	f and under 5 years.	years.	years.	years. 30 and under 50	years. 00 and under 08	years.	50 and under 60 years.	60 years and up-	Cuder 1 year.	land under5 years.	years,	10 and under 15 years.	og sebnu bna gt	30 and under 30 years,	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	-qu ban steet 00
Rurdwan	Surdwan		6	20			1	13.6	60.53	-	,	1		-		1	93			01		0.53	-		16.6	13:1	75	11.8	2.83	
		NEG 61	n	2	1	1	1	1.65	1	ı	. 1	*			,		91			63	279-9	1	1	1		14.5	4.0	14.0	25-2	10
Haghli	Hughli and Chin-	185	10	1	ŀ	1		20.6	8.4	1	1	64	61	-01	1		91	A BOS		1	129.5	46.8	9.98	0.12	1	16-8	1	12.5	-	63
J	Serampore	1	18	•	:	1	1	37.1	221.7	1		4	I	1	01	03	10			1	293.0	1	20.1	8.94	11.5	8.8	417.8	15.4	27.72	80
Serampore {	Utterpars	1	8	1		:	:	29.3	1	1									1	63	•	1		1			0.69			#
J	Howrsh	1	15		1	1	:	11.4	101	1		65	10	1	,			92	-	90	75.6	6.94	8-8	1	11		8.1	8.8	9.6	Red.
Howran ?	Bali	1	61	01		1	1	2.8	79.3	1	i	1	01	X y y	201	•		10	1	1	145'6	104.1	1	1	1	1	1	1	1	17
	Krishnagar	1	43	1	1	1	1	14.0	6.9	1	1	ON	1	1	1	•	*	1	94	1	2007	21.1	1	1	1		ı	1	1.67	62
Nuddes	Ransghat	1		-	1		1	1.1	38.1	1		.1	;	,	1			1	1	1	1	1	Ŧ	6.62	1	1	. 41.7	1	1	213
	Santipore	1		3	-			15.1	17.4	I	1	63	1	1	1	03		-		91	123.1		18.8	1	46.7	:	13.0	1	9.33	100
Jessore	Jessore		**	60	1	1	3	34.6	8.01	1	i	ı	63	1	1			i	54	1		315-8	1	-	:	8.92		1	184.7	556
Rajshahye	Rampore Beaule	esh	90			:	1	15.7	67.154	,	1	1	03	01	1		1	1	1	1	128.1	73.3	9.09	1	1	12.2			1	000
Darjiling	Darjiling	1 1	**	7	1	1	1	9.06		1	1	;	•	1			94	17 - 50 17 - 50	1	:		323.0	88.8	1	1	62.0	1	757	1	
Theres	Daces	1	=	6	1	1		14.5	6.11	1	1	4	60	1		1	92	Øt	**	1	169.6	21.5	2.5	1	1.1	10-2	6.8	18.6	35.0	11200
	Narainganj	4		1	1	1	1	85.0	1	1		1	1	-	1		1		1	1	186.4	1	86.4	1	1	19.2	24.3	1	1	
Chillsgong	Chittagong		63	20	1	1	8.29	17.9	17.0	1	•	1	1	1			1	91	67	01	7.56		8.03		1	11.5	1	46.1	67.9	A.
Tipperah	Comillsh	1	-	•		1		8-7	28-1		1	90	-				•	1		1	525.3	:	1		1		I	1	6.59	
Patna	Oity	1	18	88	1	ı	1	54.0	92.6			13	=	0	•					16	146.8					10.8	8.98	16.6	11.0	
Gys		1	\$;	17	1	1	1	6.80	0.55	1	:	8 4	17	ω,	100	00	6 0	10 0	-	G 6	0.010	139.1		253	8.65	3.00	16.0	111-1	0.78	1251
Mozufferoore	Mounfarmore	1	0 0		1	1		99.2	16.7	1	1	90	0 0	1 0	•			9 0		9 6	163.4	98.7	684			18.0	14.9	10.4	32.0	
Durbhauga	Durbhanga		- 22	83	200			0.63	1.89	1		60	13		- 61		4	4		40	100-2	8.88	8.69	187	X	16.6	18.6	41.9	9.29	S 10
Saran	Chupra		23	19		1	ŧ	82.6	6.28		:	40	120	90	6.0		9	9	80	18	184.3	120'8	9 26.2		6.55	84.7	40.1	0.11	100.6	94
Bhagulpore	Bhagulpore	9	30	9		1	. :	5.96	18-1	1	ī	1	60		1	-	82			04	304.9	9.88	8 35.4	1	12.4	14.3	4.55	8.3	12.2	
Mongkyr	Monghyr		88	7	1			26.7	0.65	:	. 1	10	00	63		01	01	.:	***	*	\$20.5	-88	147	1	27.2	1.01	11.7	1	1	19
d.	· · ·	:	1	01	1	1		5.7	18.4	-	1	1	1	1	13	1			1	1	1	0.87			69.3	:	1	0.83	1	(F)
Foori		1	83	1	i	ŧ	1	8.89	3	1	1	01			1		01		04	103	848.8	178.6	i		1	19.7	12.8	18-8	9.99	=
	TOTAL	1 ,	430	169	1	:	1.5	8.88	33.1	1		8	102	99	8	23	68 63	3 47	· ·	81	9.561	1.73	21.7	11-3	14:1	16.3	157	19.5	85.58	9
The state of the s	1	1		1	The same		1	1	100000	10000	CONTRACTOR OF THE PERSON NAMED IN	1	THE PERSON	200		100 C 100 C	THE PERSON NAMED IN			ALC: UNK		100000		Contraction of the last	-		1		1	l

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 22nd September 1896,

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of June 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. MACHGONG ,, 4 ,,

			TOTAL GOVERNMENT	AND PRIVATE.		PRIV	ATE.
Number of boats or rafts.	DESCRIPTION.	ALCOHOLD BY	Quantity-Tons.		Value.	Quantity.	Value.
or raits.		Up.	Down.	Total,	Rupees.	Tons.	Rupees.
7	1. Grain		79	79	2,145	79	2,145
	2. Cotton						
3	3. Oilseeds	*****	18	18	1,920	18	1,920
1'	4. Salt		14	14	1,540	14	1,540
	5. Piece-goods	A 4"" A	*****	••••		•••••	
13	6. Metal 7. Building materials		,211	211	204	211	204
1	8. Miscellaneous		4	4	125	4	125
1	9. Fuel		8	8	20	8	20
7 rafts	10. Timber 11. Bamboos		6,900 No.	6,900 No.	262	6,900 No.	262
26 & 7 rafts.	12. Total	{ :::::	334 & 6,900 No.	334 & 6,900 No.	6,216	334 & 6,900 No.	6,216
12 & . 1 raft.	13. Total of same month last year.	{ ⁷	108 & 4 No.	115 & 4 No.	} 1,860 {	108 & 4 No.	} 860
n de la		Up.	Down.	Total.			R
pl; 15½. Do. 16. Total	number of boats ying passenger No. empty boats ,, registered tonnage,	15 . 24	23	15 47	Total toll month las		me 4
	rgo, private Tons	CARL DESCRIPTION OF THE PARTY O	001	334			
161. Do.	rgo, private Tons Govt. ,,		******	334			
16½. Do. 17, Total	Govt. ,,				М	emorandum o	
16½. Do. 17, Total P ⁸	Govt. ,, l registered tonnage, ssenger Tons	627		 627	М		
16½. Do. 17, Total P ⁸	Govt. ,, l registered tonnage, ssenger Tons				М		
16½. Do. 17. Total pa 17½. Do.	Govt. ,, l registered tonnage, ssenger Tons empty ,,	627		 627		emorandum o	of Tollage.
16½. Do. 17, Total P ⁸ 17½. Do. 18, Ton-	Govt. ,, I registered tonnage, ssenger Tons empty ,, mileage	627 331	563	627 894	1. Balance	emorandum o	f Tollage.
16½. Do. 17. Total pa 17½. Do. 18. Ton- 19. Estir	Govt. ,, I registered tonnage, ssenger Tons empty ,, mileage nated value of cargo Rs.	627 331 3,867	563 7,746 5,954	627 894 11,613 5,954	1. Balance on t	emorandum o	f Tollage.
16½. Do. 17. Total P ⁸ 17½. Do. 18. Ton- 19. Estir 20. Num	Govt. ,, I registered tonnage, ssenger Tons empty ,, mileage mated value of cargo Rs. aber of passengers	627 331 3,867 5,204	563 7,746 5,954	627 894 11,613 5,954 5,204	I. Balance on t	enorandum of not recove the 1st of th	red the
16½. Do. 17. Total pa 17½. Do. 18. Ton- 19. Estir 20. Num 21. Raft	Govt. ,, I registered tonnage, ssenger Tons empty ,, mileage nated value of cargo Rs. aber of passengers s, bamboos No.	627 331 3,867	563 7,746 5,954 6,900	627 894 11,613 5,954 5,204 6,900	I. Balance on t	emorandum o	red the
16½. Do. 17. Total pa 17½. Do. 18. Ton- 19. Estir 20. Num 21. Raft 22. Do.	Govt. " I registered tonnage, ssenger Tons empty " mileage mated value of cargo Rs. aber of passengers s, bamboos No. , bullahs "	627 331 3,867 5,204	563 7,746 5,954 6,900	627 894 11,613 5,954 5,204 6,900	I. Balance on t	enorandum of not recove the 1st of th	red the
16½. Do. 17. Total pa 17½. Do. 18. Ton- 19. Estir 20. Num 21. Raft 22. Do.	Govt. " I registered tonnage, ssenger Tons empty " mileage her of passengers s, bamboos No.	627 331 3,867 5,204	563 7,746 5,954 6,900 	627 894 11,613 5,954 5,204 6,900	I. Balance on t	e not recove the 1st of th	red the 24
16½. Do. 17. Total pa 17½. Do. 18. Ton- 19. Estir 20. Num 21. Raft 22. Do. 23. Estir 24. Tolla	Govt. " I registered tonnage, ssenger Tons empty " mileage nated value of cargo Rs. aber of passengers s, bamboos No. , bullahs " mated value of rafts Rs. age on boats "	627 331 3,867 5,204	563 7,746 5,954 6,900	627 894 11,613 5,954 5,204 6,900	I. Balance on t	enorandum of not recove the 1st of th	red the
16½. Do. 17. Total pa 17½. Do. 18. Ton- 19. Estir 20. Num 21. Raft 22. Do. 23. Estir 24. Tolla 25. Com	Govt. " I registered tonnage, ssenger Tons empty " mileage mated value of cargo Rs. aber of passengers s, bamboos No. , bullahs " mated value of rafts Rs.	627 331 3,867 5,204	563 7,746 5,954 6,900 	627 894 11,613 5,954 5,204 6,900	1. Balance on to mon 2. Tollage	e not recove the 1st of th	red the 24
16½. Do. 17. Total pa 17½. Do. 18. Ton- 19. Estir 20. Num 21. Raft 22. Do. 23. Estir 24. Tolla 25. Com b	Govt. " I registered tonnage, ssenger Tons empty " mileage nated value of cargo Rs. aber of passengers s, bamboos No. , bullahs " mated value of rafts Rs. age on boats " pounded tollage on	627 331 3,867 5,204 108-10-0	563 7,746 5,954 6,900 	627 894 11,613 5,954 5,204 6,900 262 237-0-0	1. Balance on to mon 2. Tollage 3.	e not recove the 1st of th Total at credited	red the 24
16½. Do. 17, Total pa 17½. Do. 18. Ton- 19. Estir 20. Num 21. Raft 22. Do. 23. Estir 24. Tolla 25. Com b	Govt. " I registered tonnage, ssenger Tons empty " mileage nated value of cargo Rs. aber of passengers s, bamboos No. , bullahs " mated value of rafts Rs. age on boats " pounded tollage on cats Rs. age on rafts ","	627 331 3,867 5,204 108-10-0	563 7,746 5,954 6,900 262 128-6-0	627 894 11,613 5,954 5,204 6,900 262 237-0-0	1. Balance on to mon 2. Tollage 3.	e not recove the 1st of th Total at credited	f Tollage. red the 24
16½. Do. 17. Total pa 17½. Do. 18. Ton- 19. Estir 20. Num 21. Raft 22. Do. 23. Estir 24. Toll 25. Com b 26. Toll 26½. De	Govt. I registered tonnage, ssenger Tons empty ,, mileage her of passengers s, bamboos No. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on Rs.	627 331 3,867 5,204 108-10-0	563 7,746 5,954 6,900 262 128-6-0	627 894 11,613 5,954 5,204 6,900 262 237-0-0	1. Balance on to mon 2. Tollage 3. 4. Amour the mon	e not recove the 1st of th Total at credited	red the 24 in the 17.

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

			TOTAL GOVERNME	NT AND PRIVATE.		Priv	ATB.	
nber of oats rafts.	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	Value.	REMARKS.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	REM
145	1. Grain	474	1,422	1.896	1,13,540	1,896	1,13,540	
15	2. Cotton 3. Oilseeds		406	406	52,540	406	52,540	
13	4. Salt 5. Piece-goods	32	13	45	4,200	45	4,200	
1	6. Metal	40	413	40 424	11,000 6,620	40 248	11,000 6,270	
32 95	7. Building materials 8. Miscellaneous	504	251	755	93,550	755	93,550	
9 afts.	9. Fuel 10. Timber	37	1,842 e. ft.	1,842 c. ft.	120 470	1,842 c. ft.	120 470	
"	11. Bamboos		1,825 ,,	1,825 ,,	240	1,825 ,,	240	
% afts.	12. Total	1,098	2,511 & 3,667 c. ft.	3,609 & } 3,667 c. ft. }	2,82,280 {	3,433 & 3,667 c. ft.	2,81,930	
arts.			0,00, 0,10					
50 & rafts.	13. Total of same month last year.	{ 527 & 110 No.	1,095 & 21,761 No.	1,622 & 21,871 No. }	1,96,900 {	1,622 & 21,871 No.	1,96,900	
		Up.	Down.	Total,				
ing	number of boats ply- cargo No.	132	178	310		ge of month-		Δ.
	number of boats ply- passenger No.	47	62	109	24 + 25	+ 26 .	5,212	14
Ditto	empty boats ,,	177	115	292	T-4-1 4-11-			
Total car;	registered tonnage, go, private Tons	2,251	3,874	6,125	Total tolla month last	2,858	15	
Ditto	Government ditto "		303	303				
	registered tonnage, senger Tons	1,632	2,079	3,711	М	emorandum of	Tollage.	
Ditto	empty boats ,,	1,857	759	2,596			Rs.	A. 1
Con-m	ileage	2,45,319	2,60,549	5,05,868		not recovere		
Estima	ated value of cargo Rs.	91,470	1,90,100	2,81,570	on th month	e 1st of th		3 (
	er of passengers	2,567	6,756	9,323			1477 500	
	bamboos C. ft.		1,825	1,825	2. Tollage p	er month	5,212 1	4 9
	timbers ,,		1,842	1,842				
Stime	ated value of rafts Rs.		710	710				
	e on boats ,,	2,173-12-6	3,028-5-9	5,202-2-3	3.	Total	5,282 1	9
	unded tollage on		\(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		4. Amount	oredited in		
ollage	on rafts ,,		10-12-6	10-12-6	the ac month	counts of the	1,742 4	10
otal ton-	tollage on boats per mile Rs.	*****		0-0-2		at the and		
otal t	tollage on rafts per cubic feet Rs.			0-4-8	5. Balance d of the	ne at the end month	3,539 12	11

HIGH LEVEL CANAL, RANGE I. LENGTH OF CANAL OPEN, 33 MILES.

	F-107	T	OTAL GOVERNMENT	AND PRIVATE.		Parv	ATR.	
Number of	DESCRIPTION.		Quantity-Tons.	TIT (Volume 1997)	Value.	Quantity.	Value.	
or rafts.	Manual Translation	Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
42 4 6 16	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods	190 26	12 35	190 12 26 35	12,070 3,300 1,710 2,970	190 12 26 35	12,070 3,300 1,710 2,970	
20 14 1	6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber	45 60 7	241 32	286 92 7	520 5,780 20	45 92 7	320 5,780 20	
103	11. Bamboos	328	320	648	26,370	407	26,170	
68	13. Total of same month last year	197		280	17,020	280	17,020	-
	A 000 F 45		0051				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	000,00	Up.	Down	Total.	Total tollar	ge of mon	th— Rs	
in	number of boats ply- g cargo No.	66	37	103	Total tollag		onth	3 1
	g passenger No.	10	54	64	last year		169	9
5⅓. Do.	empty boats "	. 33	55	88	Me	morandum q	f Tollage.	
6. Total	registered tonnage, rgo, private Tons	637	203	840		or or great	(PER	
8½. Gov	t. ditto "		524	524			R	
	registered tonnage, ssenger Tons	172	437	609	1. Balance	not recov	ered	
74. Do.	empty. boats ,,	298	315	613	mont	ie ist of	the	
8. Ton-	mileage	23,094	29,470	52,564				
e. Estin	nated value of cargo Rs.	16,850	9,520	26,370	2. Tollage	per month	568	3 1
). Num	ber of passengers	193	2,192	2,385				
1. Raft	s, bamboos C. ft.						A PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN 1	
2. Do.	, bullahs "				3.	Total	568	3 14
3. Estir	nated value of rafts Rs.						8 1/20	102
	age on boats "	229-0-3	334-14-0	563-14-3	4. Amount	credited in	the onth 268	3 3
bo	pounded tollage on Rs.							1
6. Tolla	age on rafts "							
to	tollage on boats per n-mile Rs.			0-0-2	5. Balance of th	due at the	end 296	11
	l tollage on rafts per 00 cubic feet Rs.							

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 121 MILES.

			TOTAL GOVERNMENT	AND PRIVATE.		Parv	ATR.	
aber of	Description.		Quantity-Tons.		Value,	Quantity,	Value.	8 10
gits.		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
7	1. Grain	81/2	7	15 <u>1</u>	610	15½ 1	61 5	0 0
1 " 2 1	2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods	61	, 1	61 61 1	728 280	61 1	72 28	8
1 11	6. Metal 7. Building materials 8. Miscellaneous	31	281	$3\frac{1}{2}$ $28\frac{1}{2}$	35 2,368	3½ 28½	2,36	
afts aft	9. Fuel 10. Timber (81 No.) 11. Bamboos		486 c. ft. 50 No.	486 c. ft. 50 No.	243 1	486 c. ft. 50 No.	24	3 1
No. }	12. Total	{	37½ 486 c. ft. 50 No.	56 486 c. ft. 50 No.	} 4,815	56 486 c.ft. 50 No.	4,31	5
No. }	13. Total of same month last year.	{ 54 66 No.	28 4,489 No.	82 4,555 N o.	} 5,940 {	82 4,555 No.	5,94	0
	WALL TO A	Up.	Down.	Total.			- 1 114	fatfatived formula
ing	number of boats ply- g cargo No.	6	17	23	Total tollag	ge of month + 26	1-	Rs. A. 15 13
	number of boats ply- g passenger No.	8	46	54	Total tolla	ge of sa	me	
. Ditt	o empty boats "	25	7	32	month last		100000	56 0
Total	registered tennage, rgo and boats Tons	87	75	112		Football Pro-	#1565	
. Ditt	o Govt. ditto "			••••	М	emorandum o	of Tollage	0
	registered tonnage, ssenger Tons	113	422	535	NATE OF	alougou de	res vers	Bs. A.
Salah I	o empty ditto "	68	34	102		not recover		TO STATE OF
	mileage	2,814	6,330	9,144	on the month		the	
	nated value of cargo Rs.	1,093	2,978	4,071			e alleite	bbl£
	ber of passengers s, bamboos No.	105	2,031	2,136	2. Tollage	per month	1	45 13
	bullahs C. ft.		486	486			n Lug	raretal.
	uated value of rafts Rs.		244	244	3.	Total	U.Y. Saldi	15 13
Com	ge on hoats ,,	31-6-0	110-9-9	141-15-9	4. Amount	March 1997 1997 1997 1997 1997 1997 1997 199	in the	egafiili edd foli
bo	ge on rafta ,,		3-13-3	8-13-3	mont	h	12	9 11
Total	tollage on boats per n-mile Rs.			0-0-2:99	D. Balance	lue at the en	nd ,	6 1
TOTAL	tollage on rafts per 00 cubic feet Rs.		759//03/2015	0-12-4	of the	month		

SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 24, 1890.

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

		The second second	OTAL GOVERNMENT	AND I BIVATE.		Priv			100
Number of boats or rafts.	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.		Value.	
-15	fisher than the second	Up.	Down.	Total.	Rupees.	Tons.	1	Rupees.	100 mm
1	1. Grain	21		21	140	21		140	1
	2. Cotton			•••••			Li Law		
3	3. Oilseeds 4. Salt	101	21	13	1,484	13	A THE	1,484	
	5. Piece-goods						Ma.		1
•••	6. Metal 7. Building materials					*****	-340E		
2	8. Miscellaneous		5 ½	51	1,440	51		1,440	
	9. Fuel		120 c. ft.	120 c. ft.	22	120 c. ft.		22	10
2 rafts	10. Timber (20 No.) 11. Bamboos							~~	
6 &	10 m.41	1 13	8	21	} 3,086 {	21	ı	3,086	
2 rafts.	12. Total	{	120 e. ft.	120 c. ft.	1 3,000 1	120 c. ft.	5	0,000	
24 & 4 rafts.	13. Total of same month last year.	67 & 240 No.	20 & 10 No.	87 252 No.	6,607 {	79 12 No.	}	6,534	
4 Taits.	month last year.	(210 110.	10 110.	202 110.		12 110.	1		1
		Up.	Down.	Total.				D _n	
								Rs.	Δ.
4. Total	number of boats plying go No.	8	3	6	Total tollage 24 + 25	e of mont	h—	90	7
	number of boats ply- passenger No.	7	36	43					
RESIDENCE OF CHILD	3:44	16	7	23	Total tollage	e of same mo	nth	38	6
6. Total cargo	registered tonnage, and boat Tons	26	16	42					50
6½. Ditt	o Govt. ditto "				Ме	morandum o	f To	llage.	
	registered tonnage, ssenger Tons	97	342	439				ee ha	100
	o empty ditto "	77	37	114				Rs.	۸.
8. Ton-1		3,584	7,062	10,646		not recove			
A CONTRACTOR	nated value of cargo Rs.	1,352	1,712	3,064	mont		***	()0 1	10
0. Num	ber of passengers	107	1,620	1,727	2. Tollage	per month		90	7
21. Rafts	, bamboos C.ft.								
22. Do.	, bullahs "		120	120	3.	Total		89 1	3
	nated value of rafts Rs.		22	22					
	ge on boats "	26-0-6	64-0-0	90-0-6	4. Amount	THE REPORT OF THE PARTY OF THE	in		
25. Comp	pounded tollage on Rs.				mont		the	90	7
26. Tolla	age on rafts ,,		0-7-0	0-7-0					
27. Tota	l tollage on boats per	A SHIP SHIP SHIP OF THE PARTY O		0.0.1		No.			THE REAL PROPERTY.
	on-mile Rs. I tollage on rafts per			0-0-1-62		due at the			
STOLE	1 tollage on rafts per 00 cubic feet Rs.			0-5-10	of the	e month		(-)01	[0

JAJEPORE CANAL

LENGTH OF CANAL OPEN, 61 MILES.

			OTAL GOVERNMEN	IT AND PRIVATE.		PRIVA	TE.	
mber of poats rafts.	DESCRIPTION.	-	Quantity-Tons.		Value.	Quantity,	Value.	RKS.
		Up,	Down.	Total.	Rupees.	Tons,	Rupees.	REMARKS,
20	1. Grain		19	19	815	19	815	
1	2. Cotton		1	1	420	î	420	
	3. Oilseeds	******						
4	4. Salt 5. Piece-goods	141		141	1,620	141	1,620	
	6. Metal		••• ••	******				人态
***	7. Building materials		***4					
5	8. Miscellaneous		10	10	809	10	809	
	9. Fuel							
	10. Timber 11. Bamboos		*****					1
	11. Damboos					Merine 28		
30	12. Total	141	30	44½	3,664	441	3,664	差
4	13. Total of same	6	2	8	383	8	383	
	month last year.				\$ 100°		000	
	70 C 20 S	Up.	Down.	Total.				
	and the second			Shule:			Rs.	A. P.
	number of boats ply- g cargo No.	4	26	30				
111	g cargo				Total tollag	ge of month-	- 0000	
	number of boats ply-	ed length	2	2	24 + 25	4 96	1000	4 (
ın	g passenger No.		~	F would like				
]. Ditt	to empty ditto "	27	4	31	Total tolla	ge of san	CO. I was a second	
m.4.1	and towns				month last	year .	. 1	8 0
. Total	registered tonnage, and boat Tons	29	60	89			40	8
A. Ditt	to Govt. ditto "					Marie and		
					M	morandum of	Tullage	
, Total	registered tonnage, assenger Tons		39	. 39			10000	
1. Ditt	to empty ditto ,,	51	16	67			517 2 11 2 11 2 11 2 11 2	A. P
. Ton-	mileage	480	674	1,154	1. Balance on th	not recovere	ed	01
. Estin	nated value of cargo Rs.	1,620	2,044	3,664	montl		P. T. S.	***
Num	ber of passengers	A	187	137	2. Tollage p	er month	14	4 (
. Raft	s, bamboos C. ft.	- to	5%					g ,
. Do.	, bullahs ,,		1		3.	Total .	14	4 0
. Estin	nated value of rafts Rs.	Port Fire					14	4 0
	ge on boats ,,	4-12-6	9-7-6	14-4-0			A Committee	DER T
				DEED STREET, S	4. Amount	credited i	n	
	ounded tollage on Rs.				the a	ecounts of th	e	
. Tolla	ge on rafts "		••••		month		. 14	4 0
. Total	tollage on boats per						-	
	n-mile Rs.	100	·····	0-0-2-22	5. Balanco d	ue at the euc	1	r s
	tollage on rafts per 0 cubic feet Rs.				of the			

SOUTH-WESTERN CIRCLE. MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

		Т	OTAL GOVERNMENT	AND PRIVATE.		Pat	VATE.		
Number of boats or rafts.	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	V	aine.	REMARKS.
		Up.	Down.	Total.	Rupees.	Tons.	R	ipees.	REM
679 2 14 160 6 50 103 335 48 14 rafts	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos	3,943 11 111 8 178 1,194 828 164 2,466 c. ft.	598 26 67 1,457 13 224 28 1,199 310 120 c, ft.	4,541 87 178 1,457 21 402 1,222 2,027 474 2,586 c. ft.	2,84,900 70,556 19,608 1,47,931 64,340 3,17,594 6,532 5,31,422 6,736 1,658	37	1, 3, 5,	84,900 70,556 19,608 47,931 64,340 17,594 6,532 31,422 6,736 1,658	Narainghur distributary was closed
1,397 & 14 rafts.	12. Total	6,437 & 2,466 c. ft.	3,922 & 120 c. ft.	10,359 & 2,586 c. ft	14,51,277	{10,359 & 2,586 o.ft.	}14,	51,277	
2,083 & 17 rafts.	13. Total of same month last year.	9,493 & 4,081 c. ft.	5,016 & 120 e, ft	14,509 & 4,201 e. ft.	} 15,61,441	{14,509 & 4,201 c.ft.	} 15,	61,441	No. 1, or
		Up.	Down.	Total.					
14. Tota	al number of boats ply- g cargo No.	905	492	1,397	Total tolla 24 + 25 +	ge of mon 26	th— 	Rs.	7
15. Tota	al number of boats ply- g passenger No.	497	665	1,162	Total tol month la		same	15,396	8
15½. Di	itto empty ,,	421	671	1,092				989	
	al registered tonnage, Tons	15,504	8,785	24,289	М	Temorandum (of Tol	lage.	
	al registered tonnage, assenger Tons	3,472	3,482	6,954			Elia		N. S.
17½. D	itto empty ,,	2,596	3,515	6,111				Rs	Δ.
18. To	n-mileage	421,147	278,878	700,025		not reco			
19. Es	timated value of cargo Rs.	7,65,771	6,83,848	14,49,619	month	he 1st of		7,216	5 5
20. Nu	umber of passengers	6,693	9,502	16,195	2. Tollage	per month		10,92	5 7
21. Re	afts, bamboos C. ft.						(less)		
22. I	Oo., bullahs "	2,466	120	2,586	3.	Total		18,14	1 12
23. E	stimated value of rafts Rs.	1,514	144	1,658					
24. T	ollage on boats ,,	6,751-11-0	4,122-4-3	10,873-15-3					
25. C	ompounded tollage or boats Rs				4. Amou		into		
26. T	ollage on rafts "	50-7-9	1-0-3	51-8-0	mont	WINDS TO SERVICE THE PARTY OF T	z tne	40.00	5 12
27. T	otal tollage on boats per ton-mile			0-0-2-9)			-	
28. 7	Total tollage on rafts per 100 cubic feet R			2-0-		ce due at the month	e end	7,2	16

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

		T	OTAL GOVERNMENT	AND PRIVATE.		PRIV	ATR.	
umber of boats r rafts.	DESCRIPTION.	_	Quantity-Tons.		Value.	Quantity.	Value.	ARES.
E Litters.		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	REMA
161	1. Grain	1,213		1,213	52,881	1,213	52,881	do
	2. Cotton		1					during
	3. Oilseeds		*****			*****		du
26	4. Salt		182	182	18,172	182	18,172	9
	5. Piece-goods				•••••			clearance
***	6. Metal							ar
309	7. Building materials 8. Miscellaneous	92	143	235	26,441	*235	26,401	of
3	9. Fuel		36	36	310	36	310	silt
	10. Timber	4.1						6.
	11. Bamboos						******	fo T
						E PERE		closed for si
499	12. Total	1,305	361	1,666	97,804	1,666	97,764	was c
400	12. 1000	2,000	501	1,000				-
	material Assertation and					4.077.0	10202	Range No.
218 & raft.	13. Total of same month last year.	3,848	1,127 & 60 c. ft.	4,975 & 60 c. ft. }	2,77,501	4,975 & 60 c. ft.	2,77,501	Bar
	LEGIST IN THE	Up.	Down.	Total.		9	Rs.	Δ.
	al number of boats ply- g cargo No.	224	275	499	Total tolla 24 + 25	ge of month + 26		100
	al number of boats ply- g passenger No.	20	23	43	Total toll month las	lage of sa	me 4,897	15
	THE RESERVE OF THE PERSON OF T	THE RESIDENCE TO SELECT THE RESIDENCE						10
- Ca	al registered tonnage, rgo Tons	2,668	2,144	4,812	7/			10
. Tota	rgo Tons al registered tonnage,				М	emorandum oj		10
Tota	rgo Tons al registered tonnage, assenger Tons	2,668 689 54,688	2,144 14 44,589	703	. M	emorandum o		
. Tota	rgo Tons al registered tonnage,	689 54,688	14				f Tollage.	
Total Part Ton	rgo Tons al registered tonnage, assenger Tons -mileage	689 54,688	14 44,589	703 99,277	1. Balan	ce not recove	f Tollage. Rs.	۸.
Total Part Ton Est	rgo Tons al registered tonnage, assenger Tons -mileage imated value of cargo Rs.	689 54,688 55,741	14 44,589 42,063	703 99,277 97,804	1. Balan	ce not recove the 1st of th	Rs.	A. 1 8
Total Part Ton Est Number Rad	rgo Tons al registered tonnage, assenger Tons -mileage imated value of cargo Rs. mber of passengers	689 54,688 55,741 1,524	14 44,589 42,063 1,255	703 99,277 97,804 2,779	1. Balan	ce not recove	Rs.	
Total Per Ton Est Number Rate De	Tons al registered tonnage, assenger Tons -mileage imated value of cargo Rs. aber of passengers ats, bamboos C. ft.	689 54,688 55,741 1,524	14 44,589 42,063 1,255	703 99,277 97,804 2,779	1. Balandon in mon 2. Tollag	ce not recove the 1st of th re per month	Rs. 1,194	A. 1 8 0 7
Total Part Part Part Part Part Part Part Part	Tons al registered tonnage, assenger Tons -mileage imated value of cargo Rs. mber of passengers ats, bamboos C. ft. b., bullabs ,,	689 54,688 55,741 1,524	14 44,589 42,063 1,255	703 99,277 97,804 2,779	1. Balandon in mon 2. Tollag	ce not recove the 1st of th	Rs. 1,194	A. 1 8 0 7
Total Part Ton Rate De La Tol	rgo Tons al registered tonnage, assenger Tons -mileage imated value of cargo Rs. the control of the control	689 54,688 55,741 1,524	14 44,589 42,063 1,255	703 99,277 97,804 2,779	1. Balandon to mon's 2. Tollag	ce not recove the 1st of th re per month Cotal	Rs. Rs. 1,194 1,740 2,934	A. 1 8 0 7
Total Part Part Part Part Part Part Part Part	rgo Tons al registered tonnage, assenger Tons -mileage imated value of cargo Rs. mber of passengers ats, bamboos C. ft. b., bullahs ,, imated value of rafts Rs. alage on boats ,, mpounded tollage on	689 54,688 55,741 1,524 957-14-3	14 44,589 42,063 1,255 782-8-9	703 99,277 97,804 2,779	1. Balandon to mon's 2. Tollag	ce not recove the 1st of th ge per month Cotal nt paid is	Rs. 1,194 2,934	A. 1 8 0 7
Total Part Part Part Part Part Part Part Part	rgo Tons al registered tonnage, assenger Tons -mileage imated value of cargo Rs. mber of passengers ats, bamboos C. ft. b., bullabs ,, imated value of rafts Rs. alage on boats ,, mpounded tollage on oats Rs.	689 54,688 55,741 1,524 957-14-3	14 44,589 42,063 1,255 782-8-9	708 99,277 97,804 2,779 1,740-7-0	1. Balandon in mon 2. Tollag 3. 1	ce not recove the 1st of th ge per month Cotal nt paid is	Rs. Rs. 1,194 1,740 2,934	A. 1 8 0 7

[.] Only 4 maunds carried for Government work.

SONE CIRCLE. PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 864 MILES.

Number of			TOTAL GOVERNMENT	AND PRIVATE.		PRIVA	ATE.	102000
boats or rafts.	DESCRIPTION.		Quantity-Tons,		Value.	Quantity.	Vali	ue.
		Up.	Down.	Total,	Rupees.	Tons.	Rupe	008.
35	1. Grain		404	404	26,550	404	26	,550
***	2. Cotton	100						
78	3. Oilseeds	******	1,019	1,019	1,39,660	1,019	1,39	
1	4. Salt	38		38	3,425	38		,425
7	5. Piece-goods	65		65	9,200	65	9	,200
	6. Metal	1		1	160	1	2017	160
29	7. Building materials	12 253	4	16	1,155	4		,000
	8. Miscellaneous 9. Fuel	200	43	296	34,062	296	125 2 F W	,062
	10. Timber		86	86	1,420	86	1	,420
	State of the state		(8	350	8		350
1	11. Bamboos	8	237	237	2,559	237	2	,559
					AL DESCRIPTION			
140						J. ROAL #	50.7	
148	12. Total	377	1,793	2,170	2,18,541	2,158	2,18	,386
227	13. Total of same month last year	725	3,520	3,245	2,57,242	3,205	2,55	949
			0,020	0,240	2,01,245	5,200	2,50	,042
		Up.	Down.	Total.		grade of the	100	Rs.
	number of boats ply-				Total tollar	ge of month		
ing	cargo No.	36	112	148	24 + 25			2,696
	number of boats ply-						all and	
	passenger No. o empty boats ,,	2 150	2	4			規制機	Service .
6 Total	registered tonnage,	150	8	158	Total toll		me	1
carg		684	2,525	3,209	month last	t year		3,456
			~,000	0,200	2 1			-Vitter S
	registered tonnage,		亚科科国际					1
pass	senger Tous	44	44	88		April 10 Street	10110111	
71. Ditt	o empty boats "	952	36	988	Me	morandum q	f Tolle	age.
8. Ton-1	mileage	92,055	1,86,246	2,78,301			-	Rs.
	MARKETON TAX OCCUPY AND	and the state of t	The state of the s	110000000000000000000000000000000000000	THE WAY AND AND THE REAL PROPERTY.	Secretary of the second	354	1
9. Estin	nated value of cargo Rs.	29,170	1.85.392	2 14 569	1 Balance	not record	red	
		29,170 88	1,85,392	2,14,562	on th	not recove	the	400
0. Num	ber of passengers	88	104	192	on the month	ne 1st of a	the	
0. Num	ber of passengers s, bamboos C. ft.		104 35,480	192 35,480	on the month	ne 1st of	the	492 2,696
0. Num 1. Rafts 2. Do.,	ber of passengers s, bamboos C. ft. bullahs ,,		104 35,480 6,435	192 35,480 6,435	on the month	ne 1st of a	the	
0. Num 21. Rafts 22. Do., 23. Estin	ber of passengers s, bamboos C. ft. bullahs ,, nated value of rafts Rs.		35,480 6,435 3,979	192 35,480 6,435 3,979	on the month	ne 1st of a	the	2,696
0. Num 1. Rafts 2. Do., 3. Estin 4. Tolla	ber of passengers s, bamboos C. ft. bullahs ,, nated value of rafts Rs. age on boats ,,		104 35,480 6,435	192 35,480 6,435	on the month	ne 1st of h	the	2,696
20. Num 21. Rafts 22. Do., 23. Estin 24. Tolla	ber of passengers s, bamboos C. ft. bullahs ,, nated value of rafts Rs. age on boats ,, pounded tollage on		35,480 6,435 3,979	192 35,480 6,435 3,979	on the month 2. Tollage	ne 1st of ne per month	the	2,696
10. Num 11. Rafts 12. Do., 13. Estin 14. Tolla 15. Comp	ber of passengers s, bamboos C. ft. bullahs ,, nated value of rafts Rs. age on boats ,, pounded tollage on	88 681-4-9	35,480 6,435 3,979 1,864-12-3	192 35,480 6,435 3,979 2,546-1-0	on the month 2. Tollage 3.	per month Total coredited accounts of	in	3,188
20. Num 21. Rafts 22. Do., 23. Estin 24. Tolla 25. Comp boa 26. Tolla	ber of passengers s, bamboos C. ft. bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on ts Rs. age on rafts ,,	88 681-4-9 . 8-5-5	35,480 6,435 3,979 1,864-12-3	192 35,480 6,435 3,979 2,546-1-0 16-10-9	on the month 2. Tollage 3.	per month Total coredited accounts of	in	3,188
10. Num 11. Rafts 12. Do., 13. Estin 14. Tolla 15. Comp 16. Tolla 17. Total	ber of passengers s, bamboos C. ft. bullahs ,, nated value of rafts Rs. age on boats ,, pounded tollage on ts Rs.	88 681-4-9 . 8-5-5	35,480 6,435 3,979 1,864-12-3 8-5-4 133-5-3	192 35,480 6,435 3,979 2,546-1-0 16-10-9 133-5-3	on the month 2. Tollage 3.	per month Total coredited accounts of	in	3,188
20. Num 21. Rafts 22. Do., 23. Estin 24. Tolla 25. Comp boa 26. Tolla 27. Total	ber of passengers s, bamboos C. ft. bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on ts Rs. ge on rafts ,, I tollage on boats per n-mile Rs.	88 681-4-9 . 8-5-5	35,480 6,435 3,979 1,864-12-3	192 35,480 6,435 3,979 2,546-1-0 16-10-9	on the month 2. Tollage 3.	per month Total coredited accounts of	in	3,188
20. Num 21. Rafts 22. Do., 23. Estin 24. Tolla 25. Comp boa 26. Tolla 27. Total to	ber of passengers s, bamboos C. ft. bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on ts Rs. ge on rafts ,, l tollage on boats per n-mile Rs. l tollage on rafts per	88 681-4-9 . 8-5-5	35,480 6,435 3,979 1,864-12-3 8-5-4 133-5-3	192 35,480 6,435 3,979 2,546-1-0 16-10-9 133-5-3	on the month 2. Tollage 3.	per month Total coredited accounts of	in	3,188
20. Num 21. Rafts 22. Do., 23. Estin 24. Tolla 25. Compute 26. Tolla 27. Total	ber of passengers s, bamboos C. ft. bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on ts Rs. ge on rafts ,, I tollage on boats per n-mile Rs.	88 681-4-9 . 8-5-5	35,480 6,435 3,979 1,864-12-3 8-5-4 133-5-3	192 35,480 6,435 3,979 2,546-1-0 16-10-9 133-5-3	on the month of the amount of	per month Total coredited accounts of	in the	2,696 3,188 2,890
0. Num 1. Rafts 2. Do., 3. Estin 4. Tolla 5. Compute boa 6. Tolla 7. Total	ber of passengers s, bamboos C. ft. bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on ts Rs. ge on rafts ,, l tollage on boats per n-mile Rs. l tollage on rafts per	88 681-4-9 8-5-5	35,480 6,435 3,979 1,864-12-3 8-5-4 133-5-3	192 35,480 6,435 3,979 2,546-1-0 16-10-9 133-5-3	on the month 2. Tollage 3. 4. Amount the a month 5. Balance	per month Total ceredited accounts of	in the	3,188

ARRAH CANAL SYSTEM. LENGTH OF CANAL OPEN, 65 MILES.

			TOTAL GOVERNMEN	TT AND PRIVATE.		PRIVAT	e.	
mber of	DESCRIPTION.		Quantity-Tons.		Value,	Quantity.	Value.	RES.
rafts.		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	REMARKS.
37	1. Grain	21	514	535	41,058	535	41,058	
ESCALINE.	2. Cotton	13	bad	13	16,600	13	16,600	
26	3. Oilseeds		369	369	35,901	369	35,901	ALTER AL
33	4. Salt	371	450	371	41,568	371	41,568	0.33
	5. Piece-goods			******				
	6. Metal	1		1	300	1	300	
9	7. Building materials	5	52	57	740	27	324	100
30	8. Miscellaneous	70	140	210	14,984	156	14,939	1 60
2	9. Fuel		14	14	200	14	200	1500
	10. Timber				******	******		
3 19	(Bullahs		- 182	182	965	182	965	
***	11. Bamboos		173	173	1,784	173	1,784	12.3
	(Firewood		132	132	363	132	363	1783
		Oli Samuel ASS				and the second	100	T CASE
137	12. Total	481	1,576	2,057	1,54,463	1,973	1,54,002	
129	13. Total of same month last year.	382	1,654	2,036	1,25,287	1,826	1,23,791	
		Up.	Down.	Total.			Rs	. A. 1
					Total tallage	ng and same		
mata1	number of boats ply-				24 + 25	e of month-	1,720	13
	g cargo No.	50	87	137	24 + 20	+ 20 .	. 1,120	10
Total	number of boats ply-						1	
	passenger No.	9	5	14	Total tolla	ge of sam	0	
	l number of empty				month last	year	1,589	2 1
bo		109	2	. 111		the part is the	1400 1638	
	rgo Tons	900	1,735	2,635	CONTRACTOR	eans of		
Total pas	registered tonnage, ssenger Tons	134	107	241	Me	emorandum of	Tollage.	
	l registered tonnage, pty Tons	424	5	429			Re	. А.
Ton-r	nileage	67,910	93,915	161,825	1 P.I.			
Estin	nated value of cargo Rs.	66,098	85,253	1,51,851	The state of the second	not recovere 1st of th	0	1
Numl	ber of passengers	1,257	1,226	2,483	Month		. 90	13
Rafts	, bamboos C.ft.		26,070	26,070	2. Tollage I	oer month	. 1,720	13
Do.,	bullahs ,,	7	13,658	13,658			a salah	
. Do.,	firewood "	· \	9,956	9,956	S. T.	4	din di	
20020040	nated value of rafts Rs.	•••••	3,112	3,112	3.	Total .	1,811	11
	ge on boats "	375-3-0	765-8-6	1,140-11-6	4. Amount	credited i		10 E
Comp	oounded tollage on Rs.	228-0-0	228-0-0	456-0-0		counts of th	e 1.750	3 9
Tolla	ge on rafts "	S	124-2-3	124-2-3	114		utout?	
to	tollage on boats per Rs. tollage on rafts per			0-0-1-89	5. Balance of the n	lue at the end	A TOTAL	7 3
10	0 oubic feet Rs.			0-3-11	of the H		THE PARTY OF	
		THE RESERVE THE PERSON NAMED IN COLUMN 2 I	THE RESERVE AND ADDRESS OF THE PARTY OF THE	AND RESIDENCE OF THE PARTY OF T	CONTRACTOR OF THE PARTY OF THE		The second secon	

BUXAR CANAL SYSTEM. LENGTH OF CANAL OPEN, 67 MILES.

			TOTAL GOVERNMENT	AND PRIVATE.	Yes and the	PRIVAT	B. (3)	No.
Number of boats or rafts.	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
32	1. Grain	92	502	594	44,539	594	44,539	100
	2. Cotton							
6	3. Oilseeds		143	143	14,420	143	14,420	H
	4. Salt 5. Piece-goods	2	******	2	3,000	2	3,000	1
	6. Metal		•••••					1
6	7. Building materials 8. Miscellaneous	15	62 73	71 88	9,467	88	9,467	1
6 2	8. Miscellaneous		21	21	285	21	285	1
	10. Timber		188	188	1,511	188	1,511	1
	11. Bamboos	*****	169	169	1,419	169	1,419	ı
		11.700			1-12/14			1
52	12. Total	118	1,158	1,276	75,191	1,205	74,641	-
								-
48	13. Total of same month last year.	169	1,270	1,439	72,645	1,376	72,327	-
	THE TALK OF THE COLUMN	Up.	Down.	Total.	e milder	Talan e		The state of
Total	number of boats ply-	11, 2004		By Pick	September 1		Rs.	
ing	cargo No.	8	44	52				
	number of boats ply- passenger No.	8	8	16	24 + 25	ge of month—	200	
1. Ditto		26	12	38		+ 20	. 102	200
	registered tonnage, Tons	148	1,411	1,559	Total tolls	age of sam		
car	80				month last	age of sam tyear	004	Secure
365666000000000000000000000000000000000	registered tonnage, senger Tons	216	216	432				Section 1
1. Ditto	empty ditto "	75	55	130				STATE OF THE PARTY OF
. Ton-n	nileage	8,074	21,770	29,844	M	lemorandum of	Tollage.	Sections
. Estim	ated value of cargo Rs.	11,161	61,100	72,261			Rs.	
. Numl	per of passengers	566	554	1,120	1. Balance	not recovere	d	
. Rafts	, bamboos C. ft.		25,395	25,395	mont	he 1st of th	90	Street Street
. Do.,	bullahs "		14,116	14,116	9 Toller			CHILDREN STATE
. Estim	ated value of rafts Rs.		2,930	2,930	2. Tollage	per month	732	STATE OF THE PARTY OF
. Tollag	ge on boats "	102-14-9	261-4-6	364-3-3	3.	Total	769	Constitution of
bo bo	ounded tollage on ats Rs.	107-0-0	107-0-0	214-0-0				
3. Tolla	ge on rafts "		154-5-0	154-5-0	4. Amount the a	ecounts of th	0	
	tollage on boats per			0.005	mont	h	. 743	The second
	n-mile Rs.			0-0-3-7				Name of
	tollage on rafts per 0 cubic feet Rs.			0-6-2-9		due at the en	d 25	17

ABSTRACT FOR THE MONTH OF JUNE 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

		TRA	PPIC,	1890-91.				TR	APPIC,	1889-90.				
CANAL	During the	montl	a.	To end of th	e mo	ath.	During the	mon	th.	To end of the	mor	ith.	REMARS	8.
Orissa Circle.	Rs.	۸.	P.	Rs.	Α.	P.	Rs.	Α.	P.	Rs.	Α.	Р.		
Taldunda Canal System Kendrapara Canal System High Level, Range I Ditto ,, II Ditto ,, III Jajepore Canal	249 5,212 563 145 90 14	14 14	0 9 3 0 6 0	1,055 12,965 1,797 865 595 36	15	2 2 3 0 3 10	45 2,858 169 56 38	4 0	9	1,364 8,952 1,189 893 445 16	13 13 4	7 7 9 6 9 4		2000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の
Total Orissa Circle	6,276	14	6	17,316	4	8	3,169	6	1	12,862	9	6		
South-Western Circle. Iidnapore Canal Hidgellee Tidal Canal	10,925 1,740	7 7	3 0	30,322 4,950		6 0	15,396 4,897	8 15	9 3	37,899 15,888	7 0	0 6		
Sone Circle.	12,665	14	3	35,273	6	6	20,294	8	0	53,787	7	6	1	AND SECTION
atna Canal System rrah ditto uxar ditto	2,696 1,720 732		0 9 3	6,722 6,179 2,900	0 14 2	2 3 0	3,456 1,589 684	0 2 9	8 11 11	8,452 5,326 2,290	14	11 2 11		
Total Sone Circle	5,149	7	0	15,802	0	5	5,729	13	6	16,069	7	0		
GRAND TOTAL	24,092	3	9	68,391	11	7	29,193	11	7	82,719	8	0		

GOVERNMENT TRANSPORT SERVICE.

			TR	AFFIC	, 1890-91.				Traffic, 1889-90.							
CANAX.	During the month.			To end of the month.				上美	During the mouth.					To end of the month.		
	Passen- gers.	Goods,	Total rece	aipts.	Passen- gers.	Goods,	Total 1	eceipts	Passer gers.	Goods,	Total	receij	pts.	Passen- gers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A	. Р.	No.	Mds.	Rs.	A. P	No.	Mds.	Rs.	۸.	P.	No.	Mds.	Rs. A. 1
ligh Level	429	145	537 5	0	1,736	2,961	1,981	3	48	54	48	1	0	948	2,652	1,199 3
Total Orissa Circle	429	145	637 6	0	1,736	2,961	1,981	3	48	54	48	1	0	948	2,652	1,199 3

TOTAL NAVIGATION RECEIPTS.

			EARN	NINGS,	1890-91.				EARN	INGS,	1889-90.	REMARKS	
CANAL.		During the r	nonth		To end of the	mon	th.	During the	month		To end of the month.	REMARKS	
		Rs.	Α.	P.	Rs.	Α.	P.	Rs.	Α.	P.	Rs. A. P.	to encountry	
idnapere Canal idgellee Tidal Canal		6,814 10,925 1,740	3 7 7	6 3 0	19,297 30,322 4,950	VOCATIONS IN	1 6 0	3,217 15,396 4,897	7 8 15	1 9 3	14,061 12 10 37,899 7 0 15,888 0 6	ena spale e nou	
ne Conole		5,149	7	0	15,802		5	5,729		6	16,069 7 0	re s _{pe} lle ()	
Total		24,629	8	9	70,372	15	0	29,241	12	7	83,918 11 4	nci seda	

CALCUTTA,
The 22nd September 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of July 1890.

			TOTAL GOVERNMEN	T AND PRIVATE.		PRIVATE	
Number of boats or	Description.		Quantity-Tons.		Value,	Quantity.	Value.
rafts.		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
784	1. Grain	600-31	12,890	13,496.31	6,11,397	13,490-31	6,11,39
4	2. Cotton	******	23	23	2,340	23	2,34
273	3. Oilseeds	80	5,627	5,707	6,49,352	5,707	6,49,35
511	4, Salt	4,970	857.33	5,827.33	4,71,225	5,827.33	4,71,22
4	5. Piece-goods	1.44	37	1.81	4,200	1.81	4,20
29	6. Metal	138.44	34.59	173.03	31,605	173.03	31,60
57	7. Building materials	156.25	1,082	1,238.25	13,158	1,238.25	12,15
,870	8. Miscellaneous	8,098	28,379	36,477	39,99,595	36,477	39,99,59
91	9. Fuel	4,104	229.33	4,333.33	40,660		40,66
afts 5	10. Timber	140 c. ft.	2,276 c. ft.	2,416 c. ft.	1,028	2,416 c. ft.	1,02
,, 16	11. Bamboos	104 "	8,015 "	8,119 ,,	634-5	8,119 ,,	634-
,623 & 21 rafts.	12. Total	{ 18,148·44 & 244 c. ft.		67,271.06 & }	58,25,194-5	67,271.06 & 10,535 e. ft	88,25,194
,718 &	13. Total of same month last year	{ 15,752 & 579 c. ft.	46,910 & 23,695 c. ft.	62,662 & \ 24,274 e. ft. }	64,08,211	62,662 & 24,274 c. ft.	64,08,21
7 rafts.	month mast your					THE RESIDENCE OF THE PARTY OF T	
37 rafts.	month and your	Up.	Down.	Total.			Do .
			Down,	Total.	Total tollar	re of month—	Rs. A
4. Total	number of boats ply- cargo No.		Down. 2,401	Total, 3,623	Total tollag	re of month—	
4. Total	number of boats ply- cargo No. ty boats and steamers	Up. 1,222	2,401	3,623	24+25+2	26	
4. Total ing 4a. Emp	number of boats ply- cargo No. ty boats and steamers No.	Up.	11.00		24+25+2 Total tolls	ge of same	31,391
4. Total ing 4a. Emp	number of boats ply- g cargo No. ty boats and steamers No. number of boats ply-	Up. 1,222 762	2,401 156	3,623 918	24+25+2	ge of same	31,391
4. Total ing 4a. Emp	number of boats ply- g cargo No. ty boats and steamers No. number of boats ply- g passenger No.	Tp. 1,222 762 1,532	2,401 156 1,811	3,623 918 3,343	24+25+2 Total tolls	ge of same	31,391
4. Total ing 4a. Emp 5. Total ing 5a. Do. en	number of boats ply- g cargo No. ty boats and steamers No. number of boats ply- g passenger No. npty boats & steamers,	Up. 1,222 762	2,401 156	3,623 918	24+25+2 Total tollamonth last	age of same	31,391
4. Total ing 4a. Emp 5. Total ing 5a. Do. en 6. Total car	number of boats ply- y cargo No. ty boats and steamers No. number of boats ply- y passenger No. npty boats & steamers, registered tonnage, go Tons	Tp. 1,222 762 1,532	2,401 156 1,811	3,623 918 3,343	24+25+2 Total tollamonth last	ge of same	31,391
4. Total ing 4a. Emp 5. Total ing 5a. Do. en 63. Total car 7. Total pas	number of boats ply- y cargo No. ty boats and steamers No. number of boats ply- y passenger No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons	1,222 762 1,532 315	2,401 156 1,811 51	3,623 918 3,343 366	24+25+2 Total tolls month last	age of same tyear	31,391 31,315 Tollage.
4. Total ing 4a. Emp 5. Total ing 5a. Do. en 63. Total car 7. Total pas 8. Ton-r	number of boats ply- y cargo No. hty boats and steamers No. number of boats ply- y passenger No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons nileage	1,222 762 1,532 315 40,662 1,128	2,401 156 1,811 51 96,247 1,340	3,623 918 3,343 366 136,909 2,468	Total tolls month last Me	age of same tyear	31,391 31,315 Tollage.
4. Total ing 4a. Emp 5. Total ing 5a. Do. en 6. Total car 7. Total pas 8. Ton-r 9. Estim	number of boats ply- y cargo No. hty boats and steamers No. number of boats ply- y passenger No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons nileage nated value of cargo Rs.	1,222 762 1,532 315 40,662 1,128 23,20,035	2,401 156 1,811 51 96,247 1,340 35,03,497	3,623 918 3,343 366 136,909 2,468 58,23,532	Total tolls month last Me 1. Balance on the state of th	nge of same tyear emorandum of I	31,391 31,315 Tollage.
4. Total ing 4a. Emp 5. Total ing 5a. Do. en 63. Total car 7. Total pas 8. Ton-r 9. Estim 9. Numb	number of boats ply- y cargo No. hty boats and steamers No. number of boats ply- y passenger No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons mileage nated value of cargo Rs. ber of passengers No.	1,222 762 1,532 315 40,662 1,128 23,20,035 1,729	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202	Total tolls month last Me	nge of same tyear emorandum of I	31,391 31,315 Tollage.
4. Total ing 4a. Emp 5. Total ing 5a. Do. en 63. Total car 7. Total pas 8. Ton-r 9. Estim 9. Numb 1. Rafts	number of boats ply- y cargo No. hty boats and steamers No. number of boats ply- y passenger No. hty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons hileage hated value of cargo Rs. her of passengers No. hamboos C. ft.	1,222 762 1,532 315 40,662 1,128	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119	Total tolls month last Me 1. Balance on the month to th	nge of same tyear emorandum of I	31,391 31,315 Tollage. Rs. 505
4. Total ing 4a. Emp 5. Total ing 5a. Do. en 6. Total car 7. Total pas 8. Ton-r 9. Estim 0. Numl 1. Rafts 2. Do.,	number of boats ply- y cargo No. ty boats and steamers No. number of boats ply- y passenger No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons mileage tated value of cargo Rs. ber of passengers No. hamboos C. ft. bullahs ,,	1,222 762 1,532 315 40,662 1,128 23,20,035 1,729 104 140	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015 2,276	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119 2,416	Total tolls month last Me 1. Balance on the state of th	nge of same tyear emorandum of I	31,391 31,315 Tollage.
4. Total ing fa. Emp 5. Total ing fa. Do.en 6. Total car 7. Total pas 8. Ton-r 9. Estim 9. Numb 1. Rafts 2. Do., 3. Estim	number of boats ply- cargo No. ty boats and steamers No. number of boats ply- passenger No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons nileage sated value of cargo Rs. ber of passengers No. bullahs mated value of rafts Rs. green boats	1,222 762 1,532 315 40,662 1,128	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015 2,276 1,312 13-0	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119 2,416 1,662-5-0	Total tollar month last Mo 1. Balance on the month 2. Tollage p	nge of same tyear emorandum of I	31,391 31,315 Tollage. Rs. 505 31,391
4. Total ing 4a. Emp 5. Total ing 5a. Do.en 6. Total car 7. Total pas 8. Ton-r 9. Estim 0. Numb 1. Rafts, 2. Do., 3. Estim 4. Tolla	number of boats ply- cargo No. ty boats and steamers No. number of boats ply- cargo No. number of boats ply- cargo No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons nileage lated value of cargo Rs. ber of passengers No. bamboos C. ft. bullahs nated value of rafts Rs. ge on boats ,	1,222 762 1,532 315 40,662 1,128 23,20,035 1,729 104 140	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015 2,276	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119 2,416	Total tollar month last Mo 1. Balance on timont 2. Tollage p	nge of same tyear emorandum of I not recovered he 1st of the h per month	31,391 31,315 Tollage. Rs. 505
4. Total ing 4a. Emp 5. Total ing 5a. Do.en 6. Total pas 8. Ton-r 9. Estim 0. Numb 1. Rafts, 2. Do., 3. Estim 4. Tolla 5. Comp	number of boats ply- cargo No. ty boats and steamers No. number of boats ply- cargo No. number of boats ply- cargo No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons nileage lated value of cargo Rs. ber of passengers No. bamboos C. ft. bullahs nated value of rafts Rs. ge on boats gounded tollage on	1,222 762 1,532 315 40,662 1,128	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015 2,276 1,312 13-0	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119 2,416 1,662-5-0 31,358-8-0	Total tollar month last Mo 1. Balance on the month 2. Tollage 1 3. Total	nge of same tyear emorandum of I	31,391 31,315 Tollage. Rs. 505 31,391
4. Total ing 4a. Emp 5. Total ing 5a. Do.en 6. Total car 7. Total pas 8. Ton-r 9. Estim 0. Numl 1. Rafts, 2. Do., 3. Estim 4. Tolla, 5. Comp	number of boats ply- cargo No. ty boats and steamers No. number of boats ply- passenger No. npty boats & steamers, registered tonnage, go Tons registered tonnage, senger Tons nileage sated value of cargo Rs. ber of passengers No. bullahs bullahs sated value of rafts Rs. ge on boats younded tollage on ats Rs.	1,222 762 1,532 315 40,662 1,128 23,20,035 1,729 104 140 349-8-0 10,921-0-6	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015 2,276 1,312 13-0 20,437-7-6	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119 2,416 1,662-5-0 31,358-8-0	24+25+2 Total tollar month last Mo 1. Balance on the month of the mo	nge of same tyear emorandum of I not recovered the 1st of the h per month paid into	31,391 31,315 Tollage. Rs. 505 31,391 31,897
4. Total ing 4a. Emp 5. Total ing 5a. Do.en 6. Total pas 8. Ton-r 9. Estim 0. Numl 1. Rafts, 2. Do., 3. Estim 4. Tolla, bo 6. Tolla	number of boats ply- cargo No. ty boats and steamers No. number of boats ply- passenger No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons nileage nated value of cargo Rs. ber of passengers No. bullahs ,, nated value of rafts Rs. ge on boats , ounded tollage on ats Rs. ge on rafts ,,	1,222 762 1,532 315 40,662 1,128	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015 2,276 1,312 13-0 20,437-7-6	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119 2,416 1,662-5-0 31,358-8-0	24+25+2 Total tollar month last Mo 1. Balance on the month of the mo	nge of same tyear emorandum of I not recovered the 1st of the h per month paid into the the try during the the same tyear	31,391 31,315 Tollage. Rs. 505 31,391 31,897
4. Total ing 4a. Emp 5. Total ing 5a. Do.en 6. Total pas 8. Ton-r 9. Estim 0. Numl 1. Rafts, 2. Do., 3. Estim 4. Tolla, 5. Comp boo 6. Tolla 7. Total tor	number of boats ply- cargo No. ty boats and steamers No. number of boats ply- cargo No. number of boats ply- cargo No. number of boats ply- cargo Tons registered tonnage, go Tons registered tonnage, ssenger Tons nileage lated value of cargo Rs. ber of passengers No. bamboos C. ft. bullahs lated value of rafts Rs. ge on boats located value of rafts Rs. ge on rafts	1,222 762 1,532 315 40,662 1,128 23,20,035 1,729 104 140 349-8-0 10,921-0-6	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015 2,276 1,312 13-0 20,437-7-6	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119 2,416 1,662-5-0 31,358-8-0	24+25+2 Total tollar month last Mo 1. Balance on the month of the mo	nge of same tyear emorandum of I not recovered the 1st of the h per month paid into the the try during the the same tyear	31,391 31,315 Tollage. Rs. 505 31,391 31,897
ing 4a. Emp 5. Total ing 5a. Do.en 6. Total car 7. Total pas 8. Ton-r 9. Estim 0. Num 1. Rafts 2. Do., 3. Estin 4. Tolla 5. Comp bo 6. Tolla 7. Total	number of boats ply- cargo No. ty boats and steamers No. number of boats ply- cargo No. number of boats ply- cargo No. npty boats & steamers, registered tonnage, go Tons registered tonnage, ssenger Tons nileage lated value of cargo Rs. ber of passengers No. bamboos C. ft. bullahs " hated value of rafts Rs. ge on boats " bounded tollage on ats Rs. ge on rafts " tollage on boats per	1,222 762 1,532 315 40,662 1,128 23,20,035 1,729 104 140 349-8-0 10,921-0-6 2-13-0	2,401 156 1,811 51 96,247 1,340 35,03,497 1,473 8,015 2,276 1,312 13-0 20,437-7-6	3,623 918 3,343 366 136,909 2,468 58,23,532 3,202 8,119 2,416 1,662-5-0 31,358-8-0 33-0-0	24+25+2 Total tollar month last Mo 1. Balance on the month of the mo	nge of same tyear emorandum of I not recovered the 1st of the h per month paid into the the the try during the the the the the try during the the the try during the the try during the the try during the the try during the try duri	31,391 31,315 Tollage. Rs. 505 31,391 31,897

^{*} Boats in these rivers do not pay per mile.

Abstract for the month of July 1890 as compared with the corresponding month of the previous year.

	1890	-91.	1889-90,				
	During the month.	To end of the month.	During the month.	To end of the mor			
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A.			
Tollage	31,391 8 0	54,182 15 6	31,315 6 0	52,091 4			

CALCUTTA,

The 23rd September 1890.

G. A. G. SHAWE, Under-Secy to the Goot. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 20th September 1890, as compared with the corresponding week of the previous year.

				NDING SATURI II SEPTEMBER		WEER EN	DING SATURD SEPTEMBER 1	AY, THE 889.
lice and paddy	OF CARGO.		Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	de la constant		No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy Jute Firewood Other articles	=	::	813 240 125 911	65,600 89,970 61,900 2,25,210	1,094 1,663 948 3,288	348 165 187 847	65,500 81,925 88,950 1,82,225	1,028 1,475 1,845 2,937
	Total		1,589	4,42,680	6,993	1,547	4,18,6 0	6,788

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 1,525 miles open.

	COACHIN	G TRAVPIC.		FAND MINERAL	Other earnings	Total earnings.		TRAIN-MIL	ES RUN.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise,	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.	of Lyn		505
tal traffic for the week	*225,215	*2,20,936 5 0 144 13 3	20,26,251 20	4,47,907 15 0 293 9 10	15,105 10 0 9 14 5	6,83,949 14 0 448 5 6	63,3961	77,4481	110,8442
pr previous 10 weeks of half-	2,168,543	21,78,628 15 0	1,79,80,277 10	39,93,979 8 0	1,62,104 3 10	63,34,712 10 10	634,7941	734,0002	1,868,795
Total for 11 weeks COMPARISON.	2,393,758	23,99,565 4 0	2,00,06,528 30	44,41,887 7 0	1,77,209 13 10	70,18,662 8 10	698,1902	811,449	1,509,639 [
otal for corresponding week of previous year r mile of rail way correspond-	244,815	2,52,335 5 5	21,25,184 0	4,20,266 13 0	17,434 6 0	6,90,086 8 5	66,753	77,593	144,345
otal to corresponding date of previous year	2,625,411}	165 6 7 25,85,929 8 8	2,33,30,767 10	275 7 11 48,46,857 11 1	11 6 10	452 5 4 76,14,987 15 0	717,226	896,917	1,614,143

^{*}The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic to Gya on account of "Aupar Pucksha."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

14TI	TS FOR WEEL SEPTEMBER	ENDING 1889.	RECEIP:	TS FOR WEEK SEPTEMBER	ENDING 1890.	A	RECEIPTS FRO PRIL 1889 TO 10 EPTEMBER 1889	HTH	AP	RECEIPTS PRORIL 1890 TO 131 SEPTEMBER 189	H	Total	Total
tean ilmace priced,	Receipts.		Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease is 1890.
1825)	Rs. 6,90,037	Rs. 453	1,525}	Rs. 6,83,950	Re. 448	1,525}	Ra. 1,90,41,739	Rs. 536	1,525}	Re. 1,81,37,593	Rs. 495	Rs.	Rs. 15,04,146

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 57% miles open.

Managaza de la como de d	COACHING	TRAPPIC.	MERCHANDISE TRAFF		Contraction to the later of the	Total eargings.	TRAPPIO S	TRAIN-MILE	S RUE,
On a line	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Totalear unigs.	Coaching.	Merchan- dise.	Total
Total traffic for the week Or per mile of railway Por previous 10 weeks of half- year Total for 11 weeks	*2,816 78 93,802 103,618	Rs. A. P. *4,818 7 0 84 8 10 47,503 10 0 52,822 1 0	Mps. s. 28,348 10 495 30 3,15,098 10 3,43,446 20	Rs. A. P. 1,945 12 0 34 0 3 19,203 11 0 21,149 7 0	8s. A. P. 38 0 0 0 10 8 434 6 0 472 6 0	Ra. A, P. 6,802 3 0 118 14 9 67,141 11 0 73,943 14 0	1,110 9,769 10,879	5,875 6,361	1,596 15,644 17,246
COMPARISON. Total for corresponding week of previous year	24,402± 427	14,618 11 11 255 9 2 76,461 13 3	20,992 10 367 0 5,44,529 0	1,484 12 0 25 15 4 25,446 11 0	57 14 0 1 0 2 468 9 9	16,101 5 11 282 8 8 1,02,377 2 0	2,288 13,575	362 7,846	2,590 21,421

[•] The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic to Gya on account of "Aupar Pucksia,"

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

	TS FOR WEEK			es for week September		AP	L RECEIPTS PRO BIL 1889 TO 14T EPTEMBER 1889.	н	A	RECRIPTS FRO PRIL 1890 TO 13 SEPTEMBER 1890	TH	Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.		Mean mileage worked.		Per mile worked per week,	increase in 1890.	decrease i
571	Rs. 16,161	Rs. 283	571	Rs. 6,802	Rs. 119	573	Rs. 2,16,873	Rs. 158	571	Ra. 2,00,688	Rs. 146	Rs	Ra. 15,685

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 221 miles open.

	COACHING	TRAPPIC.	MERCHANDISE A		Other earnings	Total	TRAFFIC	TRAIN-MIL	RB RUX.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	earnings.	Coaching.	Merehan- dise.	Total
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week Or per mile of railway	18,377	4,521 1 0 203 3 1	4,970 10	178 11 0 8 0 6	6 0 0 0 4 4	4,705 12 0 211 7 11	925	48	965
For previous 10 weeks of half-	169,254	41,487 14 0	45,728 0	2,035 0 0	60 14 0	43,523 12 0	8,924	470	9,834
Total for 11 weeks	187,631	45,948 15 0	50,698 10	2,213 11 0	66 14 0	48,229 8 0	9,849	518	10,382
COMPARISON.	Tisk All task	or a despending	Colon III (1971)	Church III					
Total for corresponding week of previous year Per mile of railway correspond- ing week of previous year Total to corresponding date of	18,117	4,046 9 7 181 13 14	5,528 20	159 8 0 7 2 6	6 0 8 0 4 4	4,211 12 10 189 4 9	983	35	965
previous year	192,6624	45,583 2 4	55,791 20	1,887 15 0	47 6 6	47,518 7 10	10,189	443	10,63

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

Висигрт 14ти	S FOR WEEK		Весигр: 13ти	18 POR WEEK SEPTEMBER	ENDING 1890.	At	RECEIPTS FRO PRIL 1889 TO 14 SEPTEMBER 1880	TH	A	L RECEIPTS PRO PRIL 1890 TO 13 SEPTEMBER 189	TH	Total	Total
Mean mileago worked.	Receipts.		Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease 1890.
	Rs.	Rs.		Re.	Rs.		Rs.	Rs.		Rs.	Rs.	Ra.	Rs.
221	4,213	182	221	4,706	211	222	1,30,156	244	221	1,83,077	249	2,921	

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 6th September 1890, on 763 miles open.

	COACHING	TRAPPI	ic.	MERCHAND		AND MIN	HRA	L	Other ear		Total	TRAFFIC	TRAIN-MILE	8 RUN.
	Number of passengers.	Coachi		Weight carried.		Receip	ts.		includ steam-b	ing	earnings.	Coaching.	Merchan- dise.	Total.
		Rs.	A. P.	Mos.	8.	Rs.	۸.	P.	Rs.	A. P.	Rs. A. P.	- 10 - 200		
Total traffic for the week Or per mile of railway For previous 9 weeks of half-	157,160 206	53,090 70		6,17,900 810	0	1,61,320 211		0	10,150	0 0	2,24,560 0 0 284 0 0	22,600	87,368 	59,963
yesr	1,255,030	5,03,930	0 0	48,26,530	0	11,54,160	0	0	1,26,390	0 0	17,84,480 0 0	199,174	290,716	489,890
Total for 10 weeks COMPARISON.	1,412,190	5,57,020	0 0	54,44,430	0	13,15,480	0	0	1,36,540	0 0	20,09,040 0 0	281,774	328,079	549,853
Total for corresponding week of previous year	170,521	62,333 83	a water	8,13,773	0	1,99,703		0		0 0	2,80,835 0 0 363 · 0 0	22,267	35,687	57,954
ing period of previous year Total to corresponding date of previous year	228 1,384,295	5,57,669	ar subs	1,080		13,39,067		0	1,35,284	0 0	20,31,970 0 0	224,581	289,019	514,200

^{*} Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

	TS FOR WEEK SEPTEMBER 1			SEPTEMBER		A	RECEIPTS PROPRIE 1889 TO 7: SEPTEMBER 1889	CH	A	RECEIPTS FRO PRIL 1890 TO 6T EPTEMBER 1890	н	Total linorease in	Total
Mean nileage rorked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.	1890.	decrease in 1890.
	Rs.	Ra.		Rs.	Ra.		Ra,	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,80,835	376	763	2,24,560	294	705	41,67,412	257	758	*43,27,655	248	1,60,243	

^{*} Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 125 miles open.

	COACHING	TRAFFIC	o.	3	MERCHAND		AND MIR	FER	AL	Other en		Tot	-1		TRAFFIC	TRAIN-MILE	S RUN.
	Number of passengers.	Coachi			Weight carried.		Receip	ta.		festima		earnin			Coaching.	Merchan- dise.	Total.
		Rs.	A. P		Mps.	8.	Rs.	۸.	P.	Rs.	A. P.	Rs.	A.	P.			
Total traffic for the week Or per mile of railway	29,770 238	6,270 50	0 0		28,590 229	0	2,390 19			160 2	0 0	8,820 71	0		3,610	2,005	5,675
For previous 9 weeks of half-	235,522	77,590	0 0		3,44,980	0	25,570	0	0	1,830	0 0	1,04,990	0	.0	31,470	17,938	49,428
Total for 10 weeks	265,292	83,860	0 0		3,73,570	0	27,960	0	0	1,990	0 0	1,13,810	0	0	35,080	20,038	55,103
COMPARISON.									Hall reid					ŝij			
Total for corresponding week of previous year	31,242	8,340	0 0		78,714	0	7,500	0	0	141	0 0	16,011	0	0	3,499	2,277	5,776
ing period of previous year Total to corresponding date of	250	67	0 (. 590	0	60	0	0	1	0 0	128	0	0			
previous year	275,897	86,923	0 0	1	5,81,113	0	45,523	0	0	1,731	0 0	1,34,176	0	0	34,668	23,180	57,848

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIP 7T	TS FOR WEEK I SEPTEMBER	ENDING	RHCHIPT 6TH	SEPTEMBER			1889 TO 7TH SEP 1889.		APRIL	L RECEIPTS PRO 1890 TO OTH SEP 1890.	M 1st	Total	Total
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts,	Per mile worked per week.	increase in 1890.	decrease is
125	Ra. 16,041	Rs.:	125	Rs. 8,820	Rs.	125	Ra. 3,14,023	Rs.	125	Rs. *2,79,820	Rs.	Rs	Rs. 34,203

^{*} Audited up to week ending 21st June 1890.

. DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 86 miles open.

A CONTRACTOR OF THE PARTY OF TH	COACHING	TRAFFIC.		MERCHANDISE TRA	PFIC	MINE	RAI	-	Other ear	nine	źs.	Total		TRAPPIC	TRAIN-MILE	S RUN.
	Number of passengers.	Coaching receipts.		Weight carried.	1	teceipt	8.		(estimat	ed)		earning	8.	Coaching.	Merchan- dise.	Total.
		Rs. A. 1		Mps. s.	1	Rs.	A. 1		Rs.	۸.	P.	Rs.	A. P.			
Total traffic for the week	14,290	4,420 0	0	15,170 0 176 0		1,280	0	0	160 2	0			0 0		690	3,10
Or per mile of railway For previous 9 weeks of half-	128,600	41,420 0		1,12,640 0		0,550	0	0	1,090	0	0	53,060	0 0	21,070	6,012	27,081
Total for 10 weeks	142,890	45,840 0	0	1,27,810 0		1,780	0	0	1,250	0	0	58,870	0 0	23,484	6,702	80,18
COMPARISON.	articular in the second		į,	Total Communication			T		0.11.7		10.96					
Total for corresponding week of	16,408	5,044 0	0	28,989 0		2,138	0	0	255	0	0	7,437	0 0	2,534	1,551	4,08
previous year Per mile of railway corresponding		58 0	0	337 0		25	0	0	3	0	0	86	0 0			******
period of previous year		44,114 0	0	1,54,179 0		10,359	0	0	2,243	0	0	56,716	0 0	24,790	8,258	32,97

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 7TH SEPTEMBER 1889.			RECEIPTS POR WEEK ENDING 6TH SEPTEMBER 1890.			TOTAL RECRIPTS FROM 18T APRIL 1889 TO 7TH SEPTEMBER 1889.			1	RECEIPTS FRO APRIL 1890 TO 61 SEPTEMBER 1896	H	Total increase in	Total decrease in
Mean mileage worked.	Receipts.	Per	Mean mileage worked.	Receipts.	Per mile worked	Meau mileage worked.	Total receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week.	Increase in 1890.	1890.
5 (3)	Rs.	Rs.	11173 II	Rs.	Ra.		Rs.	Rs.		Re.	Rs.	Rs.	Rs.
86	7,437	86	86	5,810	67	86	1,30,995	66	86	*1,40,612	71	9,617	

[•] Audited up to week ending 21st June 1890,

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 271 miles open.

	COACHING	TRAFFI	c.	MERCHANDIS TR				Other earnings		Total	Total		TRAFFIC	TRAIN-MILI	es Run.		
	Number of passengers.	Coach		Weight carrie	a.	Receip	ts.		(estimat	ed).	earning	Ç#.		Coaching.	Merchan- dise.	Total.
Expense of the Control of the Contro		Rs.	A. P.	Mps.	B.]	Rs.	۸.	P.	Rs.	۸.	P.	Re,	۸.	P.			
Total traffic for the week Or per mile of railway	2,320 85	790 29	0 0			100	0		10	396	0	900	0	0	580	170	750
For previous 9 weeks of find	28,500	10,140	0 0	82,270	0	4,380	0	0	110	0	0	14,630	0	6	4,938	2,653	7,591
Total for 10 weeks COMPARISON.	30,820	10,930	0 0	84,350	0	4,480	0	0	120	0	0	15,530	0	0	5,518	2,823	8,341
Total for corresponding week of previous year	3,176	1,027	0 0	13,998	0	PARK MIN		594	30	lite.	0	1,894			586	504	1,00
Per mile of railway correspond- ing period of previous year Total to corresponding date of previous year	117 29,851	38 10,941				50.00	0		538	0	0	17,756			5,710	3,608	9,31

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Buchip'	ENCHIPTS FOR WREE ENDING RECEIPTS FOR WEEK ENDING 6TH SEPTEMBER 1899.			ENDING 1890.	Λ	RECEIPTS PROPRIE 1889 TO 7: BETTEMBER 1889	III	A	RECEIPTS PRO PRIL 1890 TO 67 SEPTEMBER 189	Total	Total		
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean milesge worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.		Per mile worked per week.	increase in 1890.	decrease is
272	Rs. 1,894	Rs.	1971	Rs. 900	Rs.	271	Rs. 43,385	Rs. 69	274	Re. *41,538	Rs. 66	Ra	Ra. 1,797

Audited up to week ending 21st June 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 6th September 1890, on 691 miles open.

	COACHING	TRAPPIC.		AND MINERAL	Other earnings		TRAPPIC	TRAIN-MIL	HS RUN.
	Number of pussengers.	Coaching receipts.	Weight carried.	Receipts.	(estimated), including steam-boat.	Total earnings.	Coaching.	Merchan- dise.	Total
1	s rog et de la	Ra.	MDS.	Rs.	Re.	Rs.			
otal traffic for the week (on 691 miles open)	76,937 111'34	27,969 40°48	2,80,609 406'09	32,180 46'57	6,539 9'46	66,688 96'51	11,745	11,145	23,890
for previous 8 weeks of half-	630,051	2,45,640	21,72,871	2,49,710	55,928	5,51,278	103,563	100,810	204,373
Total for 9 weeks	(a) 706,988	2,73,609	(6) 24,53,480	2,81,890	*62,467	6,17,966	115,308	111,955	227,263
COMPARISON.									
otal for corresponding week of previous year	61,298	21,916	2,33,818	23,588	12,509	58,013	11,037	11,254	22,213
er mile of corresponding week	97.53	33.77	360-27	36:35	19°27	89-39			
otal to corresponding date of previous year	758,145	2,60,695	31,34,232	3,59,949	84,742	7,05,386	103,472	140,729	244,201

^{*} Steam-boat earnings for the week, Es. 5,210. Ditto to date, ,, 46,340.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western Railway.

EBCRIPTS FOR WHEE ENDING			RECEIPTS FOR WEEK ENDING- 7TH SEPTEMBER 1889.			A	APRIL 1890 TO 6TH			L RECEIPTS PRO APRIL 1889 TO SEPTEMBER 188	Total	Total	
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Beceipts.		Mean mileage worked.	Total receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890-91.	decrease in 1890-91.
	· Rs.	Re.		Rs.	Ra.		Ra.	Rs.		Ra.	Rs.	Re.	Rs.
69 1	66,688	96.21	649	58,013	89.39	666-96	19,41,646	128*17	649	20,21,039	136-24		9,398

 ⁽a) Excludes 27,546 passengers, being traffic common to B. and N.-W. and T. S. Railways.
 (b) Do. 1,26,118 maunds, ditto ditto ditto.

DARJEELING-HIM	ALAYA	N RAILW	AY CO	MPANY, 1	LIMITED.		Rs	١.
Approximate earnings for week Corresponding period of 1889	ending	23rd August	1890		<u> </u>		7,0	521 857
Decrease			.4				6,	336
Receipts per mile for week endi Corresponding period of 1889	ng 23 rd 	August 1890	::		I.	Rs. 147 271	A. 7 11	P. 6 3
Decrease						124	3	9
Receipts from 1st July to 23rd Corresponding period of 1889	August	1890					58,3 72,2	50000000
Decrease				1 8 m			13.9	28



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, OCTOBER 1, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
Resolution on the General Administration Report of the	1965 1967 1969 1971 1973 1986 1991 1994	RESULTS of the Meteorological Observations taken at the Alipore Observatory from 21st to 27th September 1890 Meteorological Report of the Province of Bengal for the week ending Friday the 26th of September 1890 Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of September 1890 Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of September 1890 Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowninghee, from 21st to 27th September 1890 Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 13th September 1890 Circular and Eastern Canals for the week ending 27th September 1890 Bast Indian Railway for the month of August 1899 Weekly Return of Trailic Receipts on Indian Railways	1997 1998 2000 2004 2006

RESOLUTION ON THE ADMINISTRATION REPORT OF THE RAJSHAHYE DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT-MISCELLANEOUS.

Calcutta, the 30th September, 1890.

RESOLUTION.

READ-

The Administration Report of the Rajshahye Division for the year 1889-90.

The Commissioner (Mr. Lowis), all the Collectors in the Division, and the Sub-divisional Officers with a single exception, made very complete tours. Among the subjects which engaged their attention are mentioned enquiries into excise matters, chowkidari work, the condition of roads and villages, the state of crops, public health and feeling, the disposal of bad livelihood cases, inspections of police-stations, dispensaries, sub-divisional offices, subsidiary jails, schools, offices of Managers under the Court of Wards, and the collections of ferry and pound rents.

2. The rainfall was generally sufficient, and the outturn of the different crops not much below the average. Prices were nevertheless high, owing to a deficiency in the harvest of the previous year. Public health was better than in 1888, and the agriculturists, who comprise the bulk of the population, are said to have been comparatively well off. On the other hand, the high prices of food affected injuriously those who live on fixed incomes, among whom are specially mentioned those engaged on clerical work in its different forms. There was a tendency to a rise in wages: the rates increased in regard to masons, blacksmiths and carpenters in Rajshahye and unskilled labour in Julpigoree, but against this must be set off an unexplained decline in the district of Bogra.

3. As observed by the Commissioner, the most important manufactures of this Division in indigo, silk, tea, cinchona, and gunny cloth are carried on by Europeans. The first of these industries, which once flourished in Rajshahye and Pubna, has greatly declined

Apply or Colors

in recent years. The outturn of silk in the Rajshahye district has increased while the business has almost been abandoned in Bogra. The yield of tea was 23,471,100lbs. against 20,649,957lbs. in the previous year. The Commissioner remarks that a great impetus to the trade of the Rajshahye district has been given by the introduction of the daily steamer service between Rampore Beauleah and Damukdea, and the bi-weekly service between Maldah and Beauleah. The trade with Bhootan increased during the year, the imports being valued at Rs. 1,53,690 against Rs. 1,08,070 in 1888; the exports Rs. 1,39,933 against Rs. 1,20,927. The imports from Thibet are not precisely stated, but the export trade was as follows:-

alex and	Nill Late	Commercy and State of			1888.	1889.
Cotton p	iece-g	oods (European)		Rs.	12,281	18,486
Rice		(Tales 1921)		Mds.	150	
Copper	***	11.00 mm 1	***	22	103	31
Iron				22	122	95
Tobacco				100	700	254
Wool		TATTA HAVING BUILDING	***	Rs.	650	4,821

4. The Commissioner's report does not, indicate the character of the year in regard to crime, or convey any expresof the police. It would, however, appear from a comparison of the figures submitted with these returns last year that there was a diminution in the total number of cognizable and non-cognizable offences. Progress was made in Crime and police. the work of raising the pay of chowkidars and assuring its more regular The Commissioner expresses himself as preferring benches of Honorary Magistrates sitting alone to those over which a Stipendiary Magistrate presides, on the ground that the members take more interest in their work when allowed to act independently, and that relief is thus afforded to the officers of Government. He has, moreover, to some extent given effect to the policy he recommends. These considerations are of weight where Honorary Magistrates are found qualified by knowledge of the law to act alone; but care should be taken to avoid the establishment of benches which cannot be expected to dispose satisfactorily of the criminal work allotted to them. The subject has been under the consideration of the Lieutenant-Governor during the past year, and the Commissioner should embody any proposals he may desire to make in the form of an amendment to the rules for the appointment and guidance of Honorary Magistrates that have been recently promulgated.

5. Mr. Lowis considers that the conduct of the zemindars in his Division was satisfactory on the whole, and mentions several who Affairs connected with land. have been distinguished for exceptionally good management. On the other hand, certain land-owners in the Pubna district are indicated as well-known disturbers of the public peace, with results which have sometimes proved ruinous to themselves. The number of rent suits in Rungpore has increased from 6,481 to 8,086, and the explanation offered, that the agricultural classes are becoming more able and willing to assert their rights under the Bengal Tenancy Act, is not very satisfactory, as this cause, if the true one, must have operated also in Pubna and Bogra districts, where there has been a falling off under this head. Mr. Lowis considers that the Act worked successfully during the year. Its special provisions were but little used. Of the land revenue 98 per cent. was collected, a result somewhat better than that obtained during the

previous year. There was a nominal decrease of one school during the year, and an increase in the number of pupils from 92,990 to 94,578. In the Rajshahye Division the work of educating the masses makes very slow progress. There was an actual falling off in the attendance at lower primary schools, a decrease which was most marked in the case of Rungpore, in which there were 12,589 such pupils in

1889-90 against 15,517 in 1888-89, and no explanation is offered of the decline.
7. The thanks of the Lieutenant-Governor are given to Mr. Lowis for his administration of the Division during the year. Mr. Marindin, Mr. Paul, C.I.E., and Major Boileau are specially mentioned among Collectors for the excellence of their work, and among subordinate officers Mr. Pargiter, Mr. Bedford, Baboo Gunga Narain Roy, and Baboo Sita Kunta Mukerjee.

> By order of the Lieutenant-Governor of Bengal, P. NOLAN, Secretary to the Govt. of Bengal.

RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE ORISSA DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT-MISCELLANEOUS.

Calcutta, the 30th September, 1890.

BOLLIA ARTHUR THE STREET WAS TRESOLUTION. AND SECRET COUNTY OF THE SECRET

READ—

The General Administration Report of the Orissa Division for the year 1889-90.

Mr. Worsley has submitted a very full and careful report of the administrative history of the year, which in his Division was the reverse of prosperous. The price of food was high, owing to the shortness of the harvest in 1888-89, and the effect of this on the condition of the working class was not counteracted, as it was in some other parts of the country, by unusually steady demand for labour, or by any general rise in wages. The crop was not very bad, the rice yielding 13 annas, pulses 9 annas, wheat 6 annas; but on the other hand it was not good enough to compensate for the deficiency in the two preceding seasons by replenishing the exhausted stocks. The year was also most unhealthy, a result attributable, at least in part, to conditions which are described as follows by the Collector of Balasore:—

"The causes are not, I think, far to seek, though they take us back to the autumn of 1888. The October rainfall of that year was an almost total failure throughout the district, and, except in the extreme south, there was practically no rain in November. In their eagerness to save the winter rice, the ryots used for irrigation purposes every available drop of water, with the result that by February there was little left for drinking purposes. In January, February and March, 1889, there was scarcely any rainfall. May, June and July were also much below the average, as was also September. It was no wonder therefore that cholera took root in every part of the district, especially in Basudebpur and Chandbally thanas, which are impregnated with salt, and where drinking-water is always scarce. It should perhaps be noted that these are two of the three thanas that suffered from flood in August and September, 1888. It is certainly worth remarking that Jellasore suffered less than any other thana. Here the people possess an abundant supply of good water in the Subarnarekha river."

In Pooree the cholera prevailing generally over the whole Division was aggravated by a special cause, the concourse of pilgrims to the temple of Juggurnath. Fever also was very common, and the registered mortality of the year amounted to 131,784 against 76,103 in 1888-89.

Government. The other articles of manufacture mentioned in the report, such as the silver work of Cuttack, the muslins of Goolnagur, and the stone carving of Alsi, are of very minor importance, but they indicate a bent in the Uriya character which, under favourable circumstances, may hereafter lead to important economic results. At present the population is almost entirely agricultural. The sea-borne traffic of Orissa during the year was valued at Rs. 1,21,38,631, made up of Rs. 59,84,345 exports and Rs. 61,54,286 imports. It is somewhat greater than in the preceding year, when the total value was Rs. 1,13,28,886, but considerably below the average of the three years 1885-86 to 1887-88, which was Rs. 1,57,72,237. The decline is partly accounted for by the opening of the Coast Canal, which carried during the year goods valued at Rs. 5,74,531, but is mainly attributable to the bad crop of 1888-89.

3. Under the heading of Police the Commissioner quotes observations on the efficacy of the system of providing for the village watch by grants of rent-free land, a subject which will have to be considered with care now that the province has come under resettlement. When properly worked, it is a very cheap system, but it cannot secure any high degree of efficiency. Chapter XIII dealing with this subject will be specially submitted to the consideration of the Committee recently appointed under the presidency of Mr. Beames. The number of criminal cases increased from 11,731 in 1888 to 13,044 in 1889, and in regard to crimes

against property this is attributed to the prevalence of high prices. There

was no appreciable fluctuation in the amount of civil litigation.

4. The revenue collections were not satisfactory, and the Commissioner refers to the standard of 90 per cent. on current demand in a way which may mislead his subordinates as to the expectations of Government. The collections of a whole district are not to be pronounced good because they exceed 90 per cent., although a very special explanation is needed whenever collections fall in any place below that minimum. In Pooree the collections, which amounted to 78.5 per cent. only on the current demand, were very bad, and it is not to be considered as a set-off that they were worse in the preceding year. The collections of the canal rates were most deficient, and the general result is very disappointing. The attention of the Board will be drawn to this point. There were several settlements in progress during the year, important in themselves, and also as preparatory to the general settlement of Orissa, which will be commenced next year. It is satisfactory to observe that only three sales ultimately upheld took place during the year for the realization of Government revenue.

5. The Lieutenant-Governor observes with regret that there has been a marked decline both in the number of schools and scholars, the former having, as reported, fallen from 8,421 to 8,073, the latter from 125,786 to 115,788, the decrease being principally under the head of primary education. It is attributed, no doubt with truth, to the influence of high prices and to the sickly character of the year; but if a strong movement had been established in the direction of mass education, the effect of such conditions would be merely to retard the rate of progess, not to cause actual retrogression. The special schools of Cuttack, Normal, Medical, and Surveying, are mentioned as doing much practical good.

Conduct of zemindars. 6. The Commissioner observes that-

"Rajah Baikuntha Nath De Bahadur of Balasore and Rajah Badyanath Pundit of Cuttack hold the foremost place among the zemindars of Orissa for liberality and public spirit. Both these gentlemen are good landlords and of enlightened views. Rajah Baikuntha Nath De takes a very active part in the administration of local affairs, and renders much assistance to the district officer in his capacity of an Honorary Magistrate.

"The Rajah of Parikud is conspicuous among the zemindars of the Pooree district, and possesses much influence and authority. He is alive to the advantages of making improve-

ments on his estate.

"Among other zemindars, Babus Koilash Chandra Roy Mohashoy of Dehurda and Gobind Bullabh Roy Mohashoy of Cowpore are favourably noticed by the Collector of Balasore as just landlords and men of public spirit."

7. The thanks of the Lieutenant-Governor are given to Mr. Worsley for the efforts made by him to secure the efficient management of his Division during the year. The three Collectors, Mr. Tute, Mr. Allen, and Mr. Cornish, are noticed by him as having administered their districts satisfactorily, and among Deputy Collectors special note is made of Babu Rash Behari Naik.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN, Secretary to the Govt. of Bengal.

BESOLUSION ON THE ADMINISTRATION REPORT OF THE DEPARTMENT OF LAND RECORDS AND AGRICULTURE, BENGAL, FOR THE YEAR 1889-90.

REVENUE DEPARTMENT-AGRICULTURE.

Calcutta, the 23rd September, 1890.

RESOLUTION.

READ-

Letter No. 630A, dated the 13th August, 1890, from the Board of Revenue, Lower Provinces, submitting with their remarks the annual report of the Director of the Department of Land Records and Agriculture, Bengal, for the official year 1889-90.

The Director was chiefly employed during the year on important settlement work, and, in so far as it relates to this Department, and to the supervision he has exercised over improvements on Government and Wards' estates, his valuable report will be reviewed with those submitted by the Board of Revenue as to Land Revenue Administration and the management of estates under the Court of Wards. He, however, found time to prosecute with effect the agricultural enquiries which form the second part of his duties, completing, with the aid of Mr. B. C. Basu and Mr. N. N. Banerjee, the analysis, as it has been called, of the districts of Dacca and Lohardugga, and making interesting investigations as to forest and fuel reserves, tree-planting and other subjects of a kindred nature.

The work originally undertaken by Government at Berhampore for the eradication of pebrine among silk-worms, by the Eradication of pebrine and silk supply of untainted seed, was carried on during the year under the supervision of a committee of merchants interested in the trade, with Sir Alexander Wilson as President. There appears to be no doubt that the action taken has been judicious, and may ultimately result in reducing very largely the loss suffered from the disease; but last year the success obtained was not as great as had been expected. Of 7,295 maunds of seed raised, only 1,358 maunds were sold—a result which indicates no particular eagerness on the part of the villagers to obtain the improved production. Some experiments undertaken in Midnapore on a small scale were more successful. The sum of Rs. 5,000 a year is contributed by Government towards these experiments, and the services of Mr. Mookerjee, Probationery Deputy Collector, who has studied the subject in Europe, have been lent for the purpose. The Lieutenant-Governor hopes that the work will be continued steadily for a series of years, as from its nature no great improvement can be expected to result at once, while perseverence will probably result in success, such as has been obtained by similar methods in other countries.

A series of experiments were tried at the Dumraon, Burdwan, and Seebpore farms during the year. In regard to the fodder grasses tried at Burdwan, the Director observes:—

"From the statement given below it will be seen that bone-meal, applied at the rate of one maund per bigha, gave excellent results with sorghum, raising the outturn to more than twice that of an unmanured plot:—

Manure applied per bigha.	Outturn per bigha
Bone-meal, per maund Unmanured	MDS. 8. 280 36 118 0

This experiment further showed that sorghum succeeds as a rainy weather crop where it had been found to fail as a cold weather crop. In the absence of any demand for the grass, the whole of the produce was given to the bullocks of the farm, which did well on it, and used it with the greatest avidity."

At Seebpore-

"Experiments made with this crop last year confirmed the opinion expressed in the annual report of the previous year that sorghum can be profitably grown as a fodder crop in Bengal. The produce was sold at 2 annas 6 pies per maund to a Calcutta dairy, the manager of which, Mr. G. C. Bose, a Cirencester scholar, reported very favourably on it. The

yield of milk of a number of cows was increased from 20 to 25 seers by the substitution of sorghum for straw; while the cost of feeding was at the same time reduced. Mr. Bose has been so far encouraged by the results that he proposes to grow sorghum as a fodder for his milch cows. The cultivation of sorghum realized a net profit of Rs. 12-12-3 per bigha."

The Seebpore plough has met with some recognition, though not very generally successful. Mr. J. W. Crowdy, of Durbhunga, writes:—

"I find the Seebpore ploughs very useful, especially in light soils. I have now over 40 in use, and the great advantage I find is that they are so light that any bullock who can draw a common plough can work them with the greatest ease, so I have not to keep a large complement of bullocks, as I should have to do if they were heavy and unwieldy."

The Director adds as to other agricultural implements:-

"Sugar turbine.—The centrifugal sugar drier, also called the turbine, was exhibited at the Khulna Exhibition, and an experiment made there in manufacture of dolo sugar by this machine proved successful. The turbine is coming into use for making dolo or kutcha sugar out of cane rab in the district of Shahabad, and it is not improbable that it may be introduced for the same purpose in Central Bengal, where the manufacture of sugar from date-palm juice is an important industry.

"Butter-making machines.—An interesting series of experiments was made during the year by Mr. Howman, who had been deputed to India by the Dairy Supply Company of London to show the working of the centrifugal cream separator and other dairy machines, with the ultimate view of creating a market for them in India. The experiments were made at the Metcalfe Hall in Calcutta, at the Khulna Exhibition, and at Bankipore. A comparative trial between the English method of butter-making by these machines and the native process resulted in favour of the former; but the trials of the dairy machines were far from being conclusive, and leave it an open question which system, native or European, gives the larger yield of butter. Since Mr. Howman left, Messrs. Basu and Banerjee have made a comparative trial between the European dairy machines and the native churn, and have found that, not only in respect of quantity, but also of quality, the former are preferable. Attempts will be made to bring the dairy machines to notice at mêlas and elsewhere."

The cost of these experiments is about six thousand rupees a year.

With regard to the facts stated on the subject by the Director, the Lieutenant-Governor observes that it is better to export bone-dust, obtaining for it Rs. 2 or Rs. 2-8 a maund, than to leave the bones on some deserted spot, where they do no good even if they do not constitute a nuisance. But what is really desirable is that the ryots should learn to prepare and use this valuable manure for suitable soils. If its use yields a profit to farms in Europe after paying all the cost of carriage, and also to indigo and tea-planters in the country, the dust must also in some cases at least be worth its cost to the ryots. Sir Steuart Bayley observes with satisfaction the progress made in the direction of utilizing a product now generally allowed to waste, as indicated in the following passage:—

"A beginning has already been made by ryots in the use of bone-meal as manure in the districts of Burdwan and Hooghly. Arrangements have been made at Belcooly, Pearapole, and Khanian in the Hooghly district, and also in the Burdwan and Dumraon farms, and at Jheria in Manbhoom, to have bones collected and to have them fermented and ground into meal, and then to distribute the bone-meal at cost price to the ryots of the neighbourhood. In this way it may be possible to offer bone-meal at prices not exceeding Re. 1 per maund. At the suggestion of Mr. Donald Sunder, Settlement Officer of the Western Dooars, and with the permission of Dr. Lethbridge, Inspector-General of Jails, it has been arranged to utilize the labour of Mahomedans, low-caste Hindus, and aboriginal prisoners at the Julpaiguri and Purulia Jails for the grinding of bones. The bone-meal prepared in the jail will be available for sale at cost price to parties applying for it. Mr. Sunder believes that he will be able to induce the jotedars of Western Dooars to use it largely. He has already purchased 50 maunds of bone-meal from Messrs. Croft, Wells & Co., of Bally, and distributed it among the jotedars of the Western Dooars."

The thanks of the Lieutenant-Governor are given to Mr. Finucane for his efficient management of the Department during the year. Mr. Sen also rendered satisfactory service.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE PROGRESS REPORT OF THE FOREST ADMINISTRATION IN BENGAL FOR 1889-90.

REVENUE DEPARTMENT-FORESTS. Calcutta, the 23rd September, 1890. RESOLUTION.

READ-

The Progress Report of the Forest Administration in Bengal for 1889-90.

Mr. Home has submitted a very full and complete report of the working of the Department during the year, for the greater part of which he was himself in charge of the office of Conservator of Forests. Mr. Davis officiated for the three months while the Conservator was on leave of absence.

2. The area of the Reserved forests is now reported to be 5,195 square miles, of Protected forests 2,239 square miles, of Unclassed State forests and Waste lands 4,034 square miles—in all 11,468 square miles, being $5\frac{1}{2}$ per cent. of the total area of province (193,198 square miles). The forests are confined to the districts bordering on the sea, the sub-Himalayan tracts, and the plateau of Central India, so far as it stretches into Chota Nagpore and Orissa. The rich districts of the interior of Bengal are, most unfortunately, altogether without public forests, and are consequently supplied in a very deficient degree with fuel. An area of 207 square miles was added to the Reserves during the year, and an area of 25 square miles of Protected forests in the Sunderbuns was farmed out for reclamation. Much work is being done in completing the title of Government to existing Reserves by going through the legal formalities prescribed by the Act as a necessary preliminary to the constitution of a forest-formalities which were often overlooked in the first instance. The enquiries incidental to these proceedings will also secure the record and protection of private easements, and in some instances may lead to a more judicious alignment of forest boundaries, which should always be fixed with reference, among other considerations, to the convenience of the neighbouring cultivators. The Lieutenant-Governor notices with satisfaction that the average cost per mile of deliminating boundaries has been reduced from Rs. 16 to Rs. 7-3.

3. During this year there have not been so many criminal charges against officers of the Department, and in only one case Legal proceedings. brought to trial has the prosecution proved abortive. Three forest guards on the Kassalong Range in Chittagong were murdered by a gang of Chakmas, who made away with over Rs. 2,000. All the gang, except the ringleader, have been captured, and it is hoped that he also will soon be in the hands of justice. Owing to the large number of cases compounded, only 120 prosecutions were instituted as against 254 in 1888-89, while the percentage of convictions remains practically the same, viz., 79.6 per cent. Considering the remarks recorded on the subject last year by the Government of India, an explanation should have been given of the small proportion of successful proceedings. The number of cases compounded has increased from 1,450 to 2,524. These came chiefly from the Darjeeling and Sunderbuns Divisions, where the delay and other inconveniences which attend an appeal to the courts have led Forest officers to prefer compounding.

4. The result of the special measures taken to protect a portion of the forests against fire were successful-95 per cent. of the areas thus dealt with having escaped, in spite of the dryness of the season, against 72.9 per cent. in the previous year. On the other hand, there was a failure in the area not specially protected, but on which some attempt was made at preservation. In illustration of the advantages of protection reference may be made to Mr. Home's statement in regard to Buxa, that the savannahs are in many places fast clothing themselves with tree growths, thanks to consecutive years of exemption from fires. Similar improvement is observed in the savannahs of the Raidak sâl tract, but it is not so marked in those of the Bholka forest. The area of regular plantations was extended by 116 acres, and that of cultural operations by 18 acres. The cost, including maintenance of former areas, is Rs. 6,604, as compared with Rs. 6,837 last year.

5. The outturn of wood, including timber and fuel, during the year was 29,973,004 cubic feet against 27,793,504 cubic feet in the previous year. The demand for charcoal at Outturn.

Darjeeling almost trebled during the year and there was a large increase in the demand for timber from the Sunderbuns Division. A notable change was introduced in the Darjeeling Division, where, in spite of the extra work entailed, all growing trees are now marked for felling by gazetted officers. The Lieutenant-Governor is not, however, disposed to think that, apart from some very special local reasons, such a change is desirable. Financial considerations alone would prevent the employment of a gazetted officer for the selection of each tree to be cut; the object of members of the controlling staff should be not to do everything themselves, but to train their subordinates to take an intelligent share in the work.

6. The accounts appended to the report, dealing as they do with the smaller areas only, fail to give a clear idea of the profit and loss in each Division, for which purpose the following table may be found of use:—

Financial results in Forest Divisions for the years 1888-89 and 1889-90 as shown in Form No. 58-1888-89.

Division	1.		Receipts.	Expenditure.	Profits.	Loss.	Remarks.
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Direction			3,154 5 5	31,501 13 10		28,346 8 5	mt Hall Brown Conference
Working Plans Darjeeling		=	1,05,274 9 2	5,158 7 4 96,028 0 9	9,246 8 3	5,158 7 4	Comprising the Darjeeling Teesta, and Kurseon
Julpigoree	***		27,248 3 10	38,527 7 4		11,279 3 6	sub-divisions. Comprising the Julpigore
Chota Nagpore			16,811 15 2	55,604 8 7		88,792 9 5	and Buxa sub-divisions. Comprising the Palamow Hazaribagh, and Sing bhoom sub-divisions.
Sunderbuns	***	-	4,36,275 15 7	80,114 0 2	3,56,161 15 5	Switt -	
Chittagong Orissa	***	-	74,905 1 6 13,236 5 10	30,980 6 2 30,254 0 0	43,924 11 4	17,017 10 2	Comprising the Angul and Khoorda sub-divisions.
Total for 1888	-89		6,76,906 8 6	36,81,168 12 2	4,09,388 8 0	1,00,594 6 10	Surplus = Rs. 3,08,788-12-2
	120	9.00		188	9-90.		
					The second second second	The second second second	
6.17 . 40	1/6		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
			Rs. A. P. 5,818 15 10	30,876 0 1	Rs. a. P.	25,057 0 3	
Direction Working Plans Darjeeling	.:	111					Teesta, and Kurseons
Working Plans Darjeeling	***	***	5,818 15 10	30,876 0 1 13,135 2 8		25,057 0 3 13,135 2 8	Teesta, and Kurseong sub-divisions. Comprising the Julpigore
Working Plans			5,818 15 10 1,19,238 2 4	30,876 0 1 13,135 2 8 1,14,472 5 1	4,765 18 · 8	25,057 0 3 18,185 2 8	Teesta, and Kurseon sub-divisions. Comprising the Julpigore and Buxa sub-divisions. Comprising the Palamow Hazaribagh, and Sing
Working Plans Darjeeling Julpigoree Chota Nagpore Sunderbuns		1	5,818 15 10 1,19,238 2 4 55,931 2 0 19,804 2 7 4,85,458 2 3	30,876 0 1 13,135 2 8 1,14,472 5 1 46,270 1 11 46,801 11 5 78,663 15 10	4,765 18 · 8 9,661 0 1 	25,057 0 3 13,135 2 8 	Teesta, and Kurseon sub-divisions. Comprising the Julpigore and Buxa sub-divisions. Comprising the Palamow
Darjeeling Julpigoree Chota Nagpore		1 1 1	5,818 15 10 1,19,238 2 4 55,931 2 0 19,804 2 7	30,876 0 1 13,135 2 8 1,14,472 5 1 46,270 1 11 46,801 11 5	4,765 18 · 3 9,661 0 1 	25,057 0 3 13,135 2 8 27,497 8 10	Comprising the Julpigore and Buxa sub-divisions. Comprising the Palamow Hazaribagh, and Sing

It will be seen that there is a large and increasing surplus, so that the general result is satisfactory. The profit is very great in the Sunderbuns Division, from which Calcutta is supplied with fuel, as are also the important sugar and other works scattered through Khulna and Jessore. The Lieutenant-Governor has always encouraged the Department to strengthen establishments as much as possible in this Division, and to make free use of steam-launches for inspection, it being generally believed that the revenue here is capable of much greater expansion. It is also desirable to free more officers for making working plans, a duty too generally neglected, and this can only be accomplished by reducing establishments where they do not pay, namely, in Chota Nagpore and Orissa. In the latter province work will probably be considerably reduced when the forest boundaries have been re-aligned by the exclusion of village grazing and fuel grounds, a measure to which the Lieutenant-Governor attaches great importance in the interests of the cultivators.

Mr. Home has devoted great care and attention during the year to the administration of the Department.

By order of the Lieutenant-Governor of Bengal,

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE POLICE DEPARTMENT FOR THE YEAR 1889.

RESOLUTION.

POLICE

Calcutta, the 23rd September 1890.

READ-

The Report on the Administration of the Police Department for the year 1889.

Read also-

The Reports for the years 1887 and 1888, and the orders of Government recorded thereon.

GENERAL.

1. Mr. Veasey's bulky report, which has, as usual, been punctually submitted, is overburthened with more or less unsatisfactory explanations of variations in crime received from the District Superintendents or Magistrates, with the Inspector-General's comments thereon, much of which might well be omitted from future reports, while, on the other hand, the progress made in dealing with each class of crime, and the reasons which lead to failure or success, might with advantage be generalised. The work of the police in each district might also be summarised, the sufficiency or insufficiency of organisation and supervision illustrated and commented on, and the report in this way made more interesting to the general public and at the same time more useful both to Government and the District Officers. At present it is long and it is dry, and neither of these qualities enhance its practical value.

2. Excluding Railway Police, the sanctioned force in 1889 was 73 superior officers, 3,418 subordinate officers and 19,365 constables, but at the close of the year the subordinate officers were 74 and the constables 348 under the sanctioned strength. The total expenditure for the year was Rs. 40,81,342, while the expenditure on that portion of the force that was employed on purely police duties was Rs. 26,23,294, or 7.6 pies per head of the population. These figures, as also those of the proportion of police to area, nearly approximate to the figures

of previous years.

3. The Town Police have worked with but varying success. In Howrah, Dinajpur, and the Presidency Division generally they are reported to have done well, while in Dacca, Mymensingh, Bhagalpur, and at the headquarters of four of the important districts of the Patna Division they have failed in many respects. In Patna itself the procedure in cases instituted for breach of municipal bye-laws would appear to be faulty in the extreme, and in Faridpur it is said that the great extension of the boundaries of the municipality has rendered its proper watch and ward an impossibility. The Magistrate of this last district will be asked for a special report on this point. It has for some time been clearly necessary to take measures to lighten the duties and increase the popularity of Municipal Police. A redistribution of batta allowances, which are now given to all fourth grade constables on town duty, and the successful introduction of a new system of working this force (described in paragraph 9 of the Resolution on the Police Report for 1888) in Midnapur and Hughli, have effected some improvement. The further extension of this scheme has now been sanctioned. Street lighting has made but little progress, and until local municipalities are persuaded of the importance of improving the present condition of affairs in this respect, the Town Police must always work at a disadvantage. The paragraph in the Inspector-General's report which deals with this subject will be communicated to the Municipal Department of this Office for such action as may be deemed necessary.

4. In dealing with rural police the Inspector-General has made up his narrative mainly by jottings from the pages of local reports with his own remarks on them. Had Mr. Veasey given his views on the working of Act VI of 1870 generally, illustrating his opinions by reference to the cases described, and so worked up his paragraphs into a consistent account of the working of the chowkidari system, the result would have been more interesting. Many of the facts recorded are clearly of importance and worthy of comment; but

they are introduced without sequence, and it is difficult to ascertain their true bearing on the problem that Government has to solve. It would be useless to recapitulate all the cases that illustrate the well-known failure of the District Police in Bengal. In Kulpi, in the 24-Pergunnahs, two of the ringleaders in a dacoity case were chowkidars, while the punchayet was the receiver; in Murshidabad the chakeran men are described as a community of subsidised ruffians mostly belonging to the criminal classes and constituting a positive source of danger to the public; while abuses in the matter of distribution of pay and arrears of collection continue as numerous as ever. There are a few exceptions to this very general failure, but the reports have long since shown that further reform is needed. Colonel Ramsay, District Superintendent of Police of Monghyr, was placed on special duty at the end of the year in order to investigate certain points connected with the chowkidari system. His labours have now merged in those of the Committee which has been appointed to consider the general question of police reform. It will be, perhaps, the most important portion of the Committee's duty to attempt to devise means of welding together more completely than has hitherto been done the rural and the regular police. In the tea districts it will probably be necessary to introduce some system by which Government may be kept informed of what goes on in the gardens. Mr. Veasey sums up the present conditions in the following unfavourable terms:

"The position of the chakeran men remains as it was, whilst that of the others has much improved wherever attention has been given to the subject, and in Chota Nagpur at all events, under the special Act, the chowkidar has at present certainly nothing to complain of. In any further legislation which may be attempted the powers of the punchayet should be restricted to assessment and collection, and the chowkidar must be brought under police control in a way that will bring home to him the fact that he is our subordinate with nothing to expect or fear from the village community. But the material is for the most part bad and rotten, and by placing things on a sounder footing we are not removing its inherent vices."

5. One hundred and twenty special constables were appointed during the year in the districts of Howrah, Pubna, Faridpur, Patna, and Monghyr. Out of these, 10 were employed in the Behar sub-division of the Patna district for an unspecified period. This was, however, contrary to the provisions of section 17 of Act V of 1861, under which the period for which the men were appointed should have been specified. The attention of the District Magistrate will be called to this irregularity. It is worthy of notice that in Jessore, Dacca, Mymensingh, and Tipperah not a single special constable was appointed during the year, though this measure used to be freely resorted to in those districts in previous years. The three parties of punitive police in the district of Backerganj continue to be retained.

6. Four head constables and five constables were judicially convicted and sentenced to various terms of imprisonment for ill-treating accused and suspected persons; and one sub-inspector and three constables in Jessore were dismissed for the same reason, although the judicial prosecution against them broke down for want of corroborative evidence. On this subject Mr. Veasey

remarks-

"This exhausts the list of cases of this nature ordered to be shown as true, and it cannot, I think, be said that it is either long or serious. It is certainly outnumbered by the list of false charges, for accusations of this nature are much in favour amongst the criminal classes and their advisers; but although the police attach far too much weight to confessions, the old stock theory that most confessions are extorted by violence might very well be put on one side, though it is too much to hope that this will happen."

7. The percentage of officers punished departmentally shows a slight falling off, but is still very high. It is noteworthy that out of a total of 928 sub-inspectors, so many as 487, or over 52 per cent., should have been thus punished during the year. The Lieutenant-Governor agrees with Mr. Veasey in considering that minor breaches of discipline should, as far as possible, be dealt with departmentally, and that a resort to law in such cases should always be discouraged. But he also thinks that District Superintendents should not lightly, or hastily, fine their officers, who are, even at the best, far from being well paid; and generally, in inflicting punishments on their higher subordinates, they should not lose sight of the necessity of preserving their dignity in the eyes of the lower ranks. Sir Steuart Bayley is inclined to fear that sometimes

8. Money rewards were given to 1,600 officers and men and 34 more were specially promoted. The Lieutenant-Governor has seen with approval the names of the Inspectors, Sub-Inspectors, and Head-constables selected for particular mention; it is satisfactory that officers of this last much abused grade have been found deserving of this distinction.

9. Deaths from suicide increased from 2,448 to 2,917. In Cuttack (250), Jessore (204), Nadiya (185), Gya (170), 24-Pergunnahs (166), Dacca (162), Rajshahye (123), Sarun (111) and Puri (102), the number of suicides exceeded 100. It is remarkable that all these districts have headed the list for the last six years. In Gya and Dacca there were 13 and 6 cases, respectively, of suicide by children. The number of suicides by young women and girls might, as suggested by Mr. Veasey, be separately shown in future. The number of accidental deaths rose from 28,053 to 31,823. It is said that 20 cases reported as accidental death proved on enquiry to have been murders or culpable homicides. It should have been noted whether prosecutions were instituted in any of these cases for giving false information, and if so, how far they ended in conviction.

10. The following statement shows the proportion of cognizable crime to population and police in various provinces of India:—

PROVINCE.	Police.	Population,	Crime (eogniz- able).	Proportion of police to population.	Proportion of police to crime (cognizable).	Proportion of crime (cognizable) to population.
North-Western Provinces and Oudh Punjab	82,653 20,095 8,653 19,049 21,648 4,607 23,306	43,323,599 18,842,364 9,838,731 15,674,613 30,868,504 6,664,298 65,964,160	192,123 87,721 25,505 41,178 128,476 10,934 111,476	Police- Per- man. Sons. 1 to 1,326 1 to 9,37 1 to 1,137 1 to 822 1 to 1,436 1 to 1,346 1 to 2,850	Police- Cases. 1	Cases. Persons. 1 to 225 1 to 214 1 to 385 1 to 380 1 to 240 1 to 554 1 to 554

In paragraph 14 of the Resolution on the Report for 1888, the difficulty of drawing any satisfactory conclusion from such statistics as are given in the above table was commented on, and it was said that it would be more interesting to compare the police of Bengal with that of other provinces in the matter of success in dealing with crime. In accordance with this suggestion, Mr. Veasey gives the results obtained by applying the tests of police work to the crime of the different provinces, and the following table has been compiled from these results:—

	North-West- ern Provin- ces and Oudh.	Punjab.	Central Pro- vinces.	Bombay (in- cluding Sind).	Madras.	Assam (including Frontier Police).	Bengal
Test A3—Percentage of police cases ending in conviction to cases investigated	35.4	38-8	51-6	32.4	27-2	30.5	32.8
Test A4—Percentage of police cases ending in conviction to cases decided Test B2—Percentage of persons convicted	69-4	63-8	74-6	58.8	68-9	62.5	59.2
in police cases to persons arrested by police	62-6	57.2	66-6	43-2	42.9	55.8	48-7

The Lieutenant-Governor concurs with Mr. Veasey in his opinion that Bengal does not "appear to advantage as regards judicial results, and the figures given under test A4 must represent a large number of failures of justice. The high standard of proof demanded, the latitude allowed to the advocates of accused persons, and the dilatory procedure so much in vogue, are all obstacles well known and to be reckoned with in these provinces, whilst elsewhere they may be factors of less importance, but they would not exercise the influence they do if investigating officers were more careful and if supervision were more efficient." At the same time, (if the Central Provinces, which are in a great proportion inhabited by comparatively simple races, be excluded) the variations between provinces are not so great as might reasonably have been expected.

11. The following figures show the amount of cognizable and non-cognizable crime reported in the province as compared with that of the two previous years:—

	1887.	1888.	1889,	Increase as compared with 1888.	Increase as compared with 1887.
Cognizable Non-cognizable	 101,969 109,254	110,357 112,006	119,656 117,407	9,299 5,401	17,687 8,153
Total	 211,223	222,363	237,063	14,700	25,840

During the year under review there was an increase of cognizable crime in all the Divisions of Bengal except Rajshahye, the increase being most marked in the Burdwan and Patna Divisions. In non-cognizable crime there was also a general increase, the only exception being Patna, which shows a small decrease of 127.

As in the previous year, the increase in cognizable crime was mainly under "Cases against property" and "Other cases," the number of which rose from 68,951 and 30,275 in 1888 to 74,431 and 34,072 respectively in 1889. This is said to have been chiefly due to the high prices of food-grains during the year. As remarked in the Resolution on the Jail Administration Report for 1889, the large increase of offences against property also affected the number of direct admissions into jail during the year, which rose to 33,542, the highest that has been recorded since 1879. The details of the increase in non-cognizable crime will be noticed in paragraph 23 below.

The percentage of cases declared false decreased slightly from 6.0 to 5.8. The divisional percentages vary from 7.8 in Chittagong to 3.9 in the Orissa Division. The variations are most marked in the district returns, the highest being 21.2 in the Chittagong Hill Tracts and the lowest 1.3 in the Sonthal Pergunnahs. In the Burdwan Division, the percentage varied from 8.2 in Hughli to 2.1 in Howrah. The high rate in Hughli is said to have been due to the inclusion in the returns of direct cases summarily dismissed under section 203 of the Code of Criminal Procedure, while no satisfactory explanation is given of the abnormally low percentage in Howrah. In this latter district a Sub-Deputy Magistrate was employed in making preliminary enquiries in false cases, a delegation of duty of which the Lieutenant-Governor does not approve. It is to be observed that in some cases the same districts, such as Bogra and Chumparun, in the former of which the percentage was 13.7 against 4 in 1888, and in the latter 9.3 against 17-6 in 1886, show considerable variations in the figures of different years. According to Mr. Veasey these variations are due more to "individual views and influences" than to any local conditions. It seems, however, to the Lieutenant-Governor that, though this statement is true, both in regard to the police officers who investigate and the magisterial officers who decide (and such fluctuations as those shown in Bogra and Chumparun are, doubtless, due to the personal equation of the Magistrates), it does not apparently cover the whole ground, as otherwise it would be difficult to account for the fact that the Chittagong Division generally returns the highest, and the Presidency Division the lowest percentage of false cases. It is unsatisfactory that in Puri, Balasore, and Maldah so many as 24, 31, and 39 cases, respectively, sent up in A form were declared false without any attempt to prosecute. Such wholesale entries as these are, in His Honour's opinion, manifestly unfair to the

13. The statistics of the prosecution of complainants for bringing false cases are unsatisfactory in every way. There is a great falling off both in the number of prosecutions instituted and in the percentage of convictions obtained in the Presidency and Chittagong Divisions, and the Lieutenant-Governor has looked in vain for signs of real improvement anywhere. Backerganj, Monghyr, and Chumparun have done best, but the 24-Pergunnahs, Hughli, Patna, Mozufferpur, and Purneah are all exceedingly bad. The whole subject has been reviewed lately by Sir Steuart Bayley in dealing with a proposal which has been made by the Government of the North-Western Provinces to extend the scope of section 250 of the Criminal Procedure Code, and His Honour is of opinion that, although much of the failure of officers in dealing with such cases is due to

preventible causes, much more is due to defects in the law. The remarks of the Commissioner of Orissa quoted by Mr. Veasey, which would tend to the discouragement of prosecutions for laying false charges, do not commend themselves to the judgment of the Lieutenant-Governor, who believes that the evil is far more serious than Mr. Worsley appears to think, and that every prosecution, whether successful or not, acts as a deterrent.

14. The results of sessions trials were unsatisfactory in the extreme, the percentage of convictions for the whole province falling from 56.0 in 1887 and 51.7 in 1888 to 49.1. For the first time for many years the chances of the escape of an accused person who has been formally committed for trial by an investigating officer appear to be greater than the chances of his conviction. For this result the districts of Pubna and Bogra, appear to be very largely responsible, and the Lieutenant-Governor cannot but think that causes other than the alleged misconduct of the police must have contributed to the failures of justice that undoubtedly occurred. The percentage fell in Bogra from 51.7 in 1888 to 22.2 in 1889, and in Pubna from 48.9 to 10.0; and it is worthy of notice that the Jail Report for the past year shows that Pubna headed the list of releases on appeal with a percentage of 22.76, while Bogra was not much better with a percentage of 12.11. These two districts are included in one Sessions charge.

The Lieutenant-Governor is glad to see that the good management of the Government Pleader of Rungpur is given as the reason for the improvement in that district. In six out of eight jury districts the results were bad, notably so in Hughli and Burdwan, but in Patna there was great improvement, and in Howrah the percentage (60·4) was above the average. The subject of trial by jury is now under the special consideration of the Lieutenant Governor, who has

been asked for a report on the subject by the Government of India.

15. The following table shows the number of true cognizable cases for the last five years, as well as the percentage of convictions obtained in such cases during those years:—

	1885.	1886.	1887.	1888.	1889.	1885.	1886.	1887.	1888.	1889.
Abetment	1 2,802	2,891	2,901	2,872	2,818	57.7	56.7	59*0	57'9	61:
and public tranquillity. II.—Serious offences against the	4,484	4,542	4,545	4,622	4,702	43'3	41'8	43.0	42'6	43
., IIISerious offences against per- son and property or	24,103	22,803	22,234	25,247	27,824	9.7	8'4	8'5	8'2	81
" IV.—Minor offences against the	2,533	2,682	2,427	2,405	2,834	21'9	21.1	19.6	20 8	20"
v.—Minor offences against pro-	42,206	40,020	36,131	38,381	41,032	36.2	34'6	33'4	33.6	35
VI.—Other offences not specified above.	24,819	27,003	27,753	30,159	33,950	89.9	88-8	89.5	89.2	90*
Total	100,948	99,941	93,993	103,686	112,661	48'7	43'9	44.7	44'4	46

These results justify the conclusion arrived at in connection with the recent enquiries into the state of crime, that a large proportion of serious offences goes unpunished in Bengal. The reasons for this unsatisfactory conclusion, and the best method of organising reforms, are now the subjects of special enquiries.

16. Class I.—Offences against the State and public tranquility.—Under this

class I.—Offences against the State and public tranquillity.—Under this class there was a small decrease of 54, due to a falling off in cases of rioting. The cases of coining were few in number and mostly unimportant. The decrease in the number of rioting cases is found in three Divisions only, an increase being shown in the number of such cases in all the others. The great fall from 512 to 377 in the Dacca Division is most satisfactory, although even this lower number still leaves the Division at the head of the list. There were 353 cases in the Patna Division, but they were generally of a trivial nature, and the number does not appear excessive when the large area and vast population of this Division are taken into consideration. There were some serious cases in the Presidency Division, in which rioting has increased in the past two years. Jessore and the 24-Pergunnahs are responsible for the increase, while the figures in Khulna are still high. A most satisfactory fall in the number of persons bound over in Backerganj was not followed by any increase in rioting, though the presence of three bodies of punitive police in the district must have had its proper influence on the figures.

There is but little to note in the way of individual cases. In Nadiya the police sent up both parties in a serious case in which two men were killed by

the defending party, but the plea of private defence was successfully raised, and only trifling punishments were awarded. In the Narail sub-division of Jessore hired mercenaries were engaged by rival zemindars for local warfare, but they were usually dealt with leniently, and the principal criminals were left untouched. In a case from Bagirhat in Khulna the action of the executive is severely criticised by Mr. Veasey, and a special report will be called for. In Jalpaiguri a vague reference is made to an increase in attacks on managers by tea-garden coolies, but no details are given. In Sarun there were some disputes about the cutting of bunds, inevitable in a season of floods; and in Patna there was one serious riot in which the sepoys of the 2nd Native Infantry at Dinapur were concerned. The matter was taken up promptly by the military as well as the civil authorities, but with unsatisfactory results.

Only 8 persons were convicted during the year for harbouring offenders as against 9 in 1888. As remarked by Mr. Veasey, this offence is no doubt much more common than is generally supposed, and a larger number of convictions would be obtained if the law were set in motion in every case, and if

perfunctory excuses were more commonly rejected.

17. Class II.—Serious offences against the person.—There is very little fluctuation in the figures under this class. There was a slight improvement in the percentage of convictions before the Sessions Courts (47.9 in 1889 to 44.4 in 1888), but the standard is very low. On the whole, the results in cases which come under this heading fully justify recent strictures on the working of the police, and show that they are as unsuccessful in prosecution as in detection.

There were 316 murders, the largest number reported since 1880. Robbers were responsible for 26 of these as against 10 in 1888 and an average of 8.2 for the five years before that, and there were again 13 due to poison. It is curious that this is the exact number of murders by poison in the years 1887 and 1888, and the average number of such murders in the four years before 1887. The increase in the total number of murders must be considered

with the decrease of 17 in the number of culpable homicides.

There was a slight improvement in the percentages of conviction, but the standard is so low that there is not much room for congratulation. In one of the cases of murder by dacoits in Midnapur all five of the dacoits were sentenced to transportation for life, but only six persons had been convicted for murder as robbers before the close of the year. In the cases of murder by poison only one solitary person was convicted. For all other murders 214 were acquitted at the Sessions and 103 convicted, the majority of the latter receiving

sentences of transportation.

If the figures of this class of crime be taken separately for each Division, a marked feature of the statistics is, as usual, the very large number of cases reported from the Dacca Division, in which serious crime is always prevalent. The statistics in Backerganj alone will bear comparison with those of the whole Divisions of Chota Nagpur, Orissa or Bhagalpur, and Mymensingh is not far behind Backerganj, and it is in Mymensingh that there has been a notable increase in 1889 of 71 true cases. In the Presidency Division there has been a marked decrease common to most districts, while in Burdwan there has been an increase due chiefly to the district of Hughli. The figures for the Rajshahye Division show an increase of 33 cases in Rungpur, and those of the Chittagong Division show that there has been a distinct growth of crime attended by violence in the district of Chittagong. Chumparun, in the Patna Division, shows an increase of over 50 per cent.

Results in murder cases were very bad in most Divisions. In the two jury districts of Burdwan and Hughli there was not a single conviction in 20 cases. In the Presidency Division 63 persons were tried for "other murders," but only eight convicted. In 10 cases in Dacca only two persons were convicted, while in Faridpur, in the same number of cases, 44 persons were released and one was convicted. In Patna there was no conviction in a murder by dacoits and three murders by robbers, while in the Patna Division generally there were only nine persons convicted to 48 acquitted in 39 murders. But these are only examples of the general rule of results in 1889, and the Lieutenant-Governor agrees with Mr. Veasey in thinking that most of the failures of justice are due to the police attaching too much weight to confessions and the Courts too little

weight to circumstantial evidence.

In perusing the brief accounts of important cases given by the Inspector-General, it is melancholy to note that many were due to quarrels between husbands and their youthful wives. In Hughli a school pundit, afterwards shown to be insane, hacked his wife, a girl of 13, about the head with a katari because she would not or could not satisfy his desires. In Nadiya a husband killed his wife, a sickly girl of 12, for refusing to cohabit. In Maldah a man throttled his child-wife, aged 11, because she could not satisfy his lust. He was treated with extraordinary leniency by the Judge, who gave him two months' imprisonment for hurt—a sentence enhanced by the High Court to two years for culpable homicide. In Hughli, again, a young wife of 15 refused to cohabit with her husband, and died from the effects of the savagery with which that husband and his two brothers branded her in and about her private parts. In the remaining cases of wife-murder the ages of the victims are not given, but a further case in which a girl of 14 was chopped to death by her father-in-law on suspicion of misbehaviour may be mentioned here.

In Midnapur a woman was murdered by her neighbour, also a woman, who charged her with having bewitched her husband. The murderess escaped from the police, but was taken by some cooly recruiters, into whose hands she fell, to

the sadr station, where she was recognised and re-arrested.

In a case in Dum-Dum which attracted much attention, a villager was shot by one of four European soldiers out in search of liquor. The criminal was convicted, but the conviction was upset by a Full Bench of the High Court—a notable instance of failure of justice.

In Rajshahye the following extraordinary case is reported, and the action

of the officers who dealt with it will be further enquired into:

"A man chained his wife up and then handed the key to his kept woman, who set fire to the house and let her burn with it, refusing to give up the key when it was demanded. This atrocious crime was, in the opinion of the trying Magistrate, sufficiently punished, as far as the husband was concerned, by a year's imprisonment and fine on a conviction only for wrongful confinement, whilst the woman got an additional year on a further conviction under 304A. Eventually it found its way to the Sessions, where the woman was transported for life, whilst the sentence on the husband, light as it was, was made lighter, though there was evidence to show that he had removed all his property and was no doubt an accomplice before the fact."

It is satisfactory to note that in Backerganj a principal, who had turned Queen's evidence and retracted his statement at the Sessions trial, was given five years' imprisonment on his own statement under section 194, Indian Penal Code.

The son of one of the zemindars concerned in the murder of a tehsildar in 1884 surrendered himself, and, although acquitted by the jury, was sentenced

to three years' rigorous imprisonment by the High Court.

In two cases in Bhagalpur and in one in Patna there was strong evidence to show that the informants had killed one of their own party for the purpose of instituting a serious false case against an enemy; and in a case in Singbhum a burglar was wounded by the owner of the house and then murdered by his companions, who cut off his head to prevent identification.

Two cases in Tipperah are thus described:-

"An unpopular naib was shot dead at night as he was holding cutcherry; the case for the prosecution being that this was the work of a number of the ryots, who had hired a bad character from a distance for the purpose. Twelve persons were arrested and sent up, and seven of them were convicted at the Sessions: however, they were all released on appeal.

Another bad case in this district, described by the Commissioner as 'as cold-blooded a murder as could well happen,' ended in the principal accused being convicted of hurt and

sentenced to six months' rigorous imprisonment. A mahout was pushed off his elephant in a bheel by two men, who deliberately left him to drown, rapping him over the knuckles when he tried to get into their boat, and afterwards cynically described his dying struggles."

There were 234 cases of culpable homicide against 251 in the previous year. The decrease is nominal, some cases having been included under the head of murder. The results of trials show a slight falling off, the percentage of

convictions in true cases being 38.8 against 40.2 in 1888.

Drugging cases rose from 28 to 30. The number of persons convicted was six, the same as in the previous year. In the Rajshahye Division, out of 13 persons sent up in nine cases, 12 were discharged or acquitted. Four cases occurred in Manbhem, in all of which the victims were travellers, who fell a ready prey to designing persons. Only one arrest was made.

18. Class III.—This class includes dacoity, robbery, serious mischief,

The increase in these crimes reported in 1888 shows no signs of diminution in 1889. The results of trials are wholly unsatisfactory, and there is scarcely any portion of the report, which is the reverse of flattering to the Police in most of the statistics it produces, which more seriously reflects on their efficiency than this.

The following table shows the figures relating to dacoity for the last five

years :-

139	and last		11.0	dir g ding jous			Persons.			of s to	re of ons to tried.
	The state of the s			Cases, includir g those pending from previous year.	Convictions.	Percentage.	Appeared before Mugis- trate.	Convicted.	Acquitted.	Percentage c-nvictions persons appeared,	Percentage convictions persons tried
1885				182	37	20.3	663	159	385	23 9	29.2
886				113	35	30.9	558	135	291	24.1	31.6
887				115	24	20.8	508	95	277	18.7	25.5
1888		12 1		144	34	23.6	607	132	399	21.7	24.8
1889				190	31	16.3	782	168	554	21.4	23.2

The percentage of convictions and the very great increase in the number of persons acquitted are both most serious features of the above statistics. The falling off in power and efficiency is everywhere observable, though Burdwan and Patna account for 16 cases each out of a total increase of 40 cases. In Chumparun alone there were 13 cases against a blank return for 1888. This serious outbreak of crime is attributed to the distress caused by high prices. Out of 35 persons sent up from this district, only nine were convicted, 26 being released. Results are worse in the Hughli district, which, with 11 cases, shows only one conviction under section 411, Indian Penal Code. In the Rajshahye Division, again, only two persons were convicted in 17 cases, against 49 discharged or acquitted. In the Burdwan district no arrest was made in three out of four cases, while in Purneah all the nine persons convicted have since been released by the High Court. The only exception to this general run of bad results is Tipperah, where, out of 40 persons sent up for trial in four cases, 28 were convicted—a result no doubt creditable to the police of both Tipperah and Noakhali, who worked together, the dacoits belonging to the latter district.

In Midnapur there was a small increase from 8 to 11 cases. Five trouble-some gangs in this district were broken up during the year, one of the ring-leaders (Kristo Chunder Chowdhury), who admitted having had a hand in 15 dacoities, and who was last released from jail in 1885, being sentenced on conviction to transportation for life. It is hoped that the breaking up of these gangs will have the effect of materially diminishing the number of dacoities in this district.

Two river dacoities, both attacks on rice-boats, are reported from the 24-Pergunnahs. The Inspector-General says that in these cases the accused were summarily acquitted and released at the Sessions without the evidence against them having been gone into. He adds:—

"The police do not appear to have been to blame. In the course of investigating one of these cases they were opposed and roughly handled, a sub-inspector having his arm broken, whilst the number of men concerned in the original case is given as not less than 150, and an attempt had been made to scuttle the boat on the villagers coming to the crew's assistance.

"The failure of these two cases is not only unfortunate in itself, but must encourage and strengthen the demands for black-mail which are known to be made from time to time upon certain sections of the route through the Sunderbuns. It is easy enough to discourage reporting, and when manjhis find they are not protected, we can hardly blame them if they pay what is asked and say nothing, sooner than give offence by employing the police to conduct investigations and make arrests which are after all to end in nothing. There were 18 men acquitted in these two cases, and every one of them is a standing example of the many chances on the side of the criminal, who need never despair of scoring a victory."

A case of technical dacoity, but none the less serious, is reported from Dinajpur. In this case the assailants, who used fire-arms and had an elephant, attacked the homestead of a recalcitrant ryot. A man was killed on the side of

. the ryots, but the case fell through, as they absolutely denied having recognised

any one.

A rather curious case occurred in Bhagalpur, in which a woman hired a gang of dacoits to plunder her brother's house in satisfaction of a claim she had against him. This was carried out; but as the dacoits offered her Rs. 5 only, she applied to the police, who made several arrests and recovered some of the property, but could get only one person convicted.

In a case in Shahabad, a retired Deputy Magistrate returned his loss at Rs. 37,275. The police recovered property of the value of Rs. 4,018, and eight

persons, two of them receivers, were convicted at the Sessions.

There were 177 cases of robbery against 155 in 1888. No explanation is given of the increase which occurs under the heading of "Highway robberies." Out of 231 persons brought to trial, only 91, or 39.3 per cent., were convicted. In the Chota Nagpur Division six convictions were obtained in eight cases. In a case of mail robbery in Hazaribagh the accused was, on conviction, sentenced to four years' imprisonment.

There were 501 cases of mischief by fire against 506 in 1888, but the judicial results were extremely bad, 30 persons being convicted against 211 discharged or acquitted. The worst districts were Dinajpur and Mymensingh. In the former district only two persons were convicted in 86 cases, and in the latter

only one in 36 cases.

The Lieutenant-Governor is glad to observe that much attention is paid in Dinajpur to the prosecution of criminal gangs. Out of a total for Bengal of eight cases with 93 persons brought to trial, this district alone accounts for three cases and 53 persons. Results were no doubt very poor, only six persons having been convicted; but, as remarked by Mr. Veasey, the sections relating to the offence "have been so little worked that they are new to most judicial officers, and it is only by keeping on that we can succeed in obtaining an explicit ruling as to what the Courts consider necessary."

19. Class IV.—Minor offences against the person.—A decrease of 71 under this class calls for no notice. The following case is from the 24-Pergunnahs. A man, whose girl-wife had offended him by running away home, tied her by her hair to a rafter, and on her escaping rivetted a chain on to her legs and kept her thus for a fortnight. He was on conviction sentenced to six months' rigorous

imprisonment.

20. Class V .- Minor offences against property .- Including burglaries, which, for purposes of comparison, are usually treated with offences under this class, as well as under Class III, the number of cases was 66,932 against 61,711 in 1888. The large increase of 5,221 cases is attributed to the failure of crops and the consequent impoverishment of the lowest classes. The variations were most marked under the heads of theft and burglary, which show an increase of 2,305 and 2,501 cases respectively. Under burglary the percentage of convictions in cases was 7.5 against 7.2 in 1888; but the percentage of persons convicted shows a slight improvement, being 55.5 against 53.7. This is said to be due to the fact "that in a considerable proportion of cases the men sent up have been caught redhanded, so that the police have had their work done for them." Patna is again the worst among the Divisions, the number of burglaries (7,654) being nearly 700 more than any total reached in the Division during the last eight years, and 1,529 more than the total for 1888. Chowkidari parades and an increased use of the power to refuse investigation under section 157 have undoubtedly contributed to this increase; but the danger of too free a use of this power is shown in the falling off of cases in Patna, where there was a high percentage (37.0) of refusals, and Mr. Veasey is probably right in thinking that with fewer refusals there would have been more crime reported. In this matter the Lieutenant-Governor considers that much discretion should be left to the District Superintendents and their station officers, subject to the control of the Magistrate, and His Honour would call attention here to the remarks made in paragraph 12 of the Resolution on the Report for 1887:—"The discretion is one which must be exercised. It requires to be carefully controlled, as it is liable to serious abuse, but its judicious exercise may relieve the police of much useless work. No general orders should be laid down in any district that particular classes of cases are not to be enquired into." The large increase of burglary in the Patna Division attracted the Lieutenant-Governor's notice last year when

dealing with the statement of serious crime for the third quarter of that year. The attention of the Commissioner has since been drawn to the matter, and he has been asked to impress upon Magistrates and District Superintendents in the Division the absolute necessity for greater exertion on their part in the

matter of checking and controlling this crime.

Amongst districts the worst was Monghyr with 1,945 cases against 1,890 in 1888. In the Bhagalpur district there was an increase of 329 cases owing, it is said, to better reporting and high prices. The results in Midnapur were good in comparison with the bad ones last year, and the remarks of Mr. Munro on the crime of this district, which have been quoted by Mr. Veasey, show an intelligent grasp of the wants of the district which is not always to be found elsewhere. In Dinajpur much good work is said to have been done of late years. This is indicated by the fact that there was a decrease in burglary both in 1889 and in the previous year, though the causes at work were much the same. Judicial results were, however, not satisfactory. In this connection the Magistrate remarks:—

"It is difficult to obtain a conviction from some Deputy Magistrates, and in a great many true cases the offenders go unpunished."

There is, however, nothing to prevent notable instances of failures of justice from being reported to Government with a view to an appeal being preferred

against the order of acquittal.

In Darjiling the number of cases increased from 91 to 141, or more than 50 per cent., while Faridpur shows an increase of 125 cases, and results are said to be going from bad to worse. Separate reports will be called for regarding both these districts.

21. Class VI.—Other offences not specified above.—An increase of 3,791 cases under this class was due to prosecutions for nuisance, the number of which rose

from 21,641 to 25,599 during the year.

Bad livelihood cases show an increase of 54, but, as remarked by Mr. Veasey, this is far from satisfactory, in view of the fact that there was such a considerable increase during the year in cases of dacoity and burglary. Two thousand and twenty-five cases were instituted on the report of the police and 82 by petition before the Magistrate. Of these 1,178 of the former and 49 of the latter ended in conviction. In paragraph 27 of the Resolution on last year's Report, a report was called for from the Inspector-General of Police on the subject of reckoning the time occupied in disposing of these cases. This report has since been received. Mr. Veasey recommends that the date of institution be reckoned from the date on which the report is made to the Magistrate. The Lieutenant-Governor has no objection to this recommendation being given effect to, but he desires at the same time that the procedure which has been followed in the present report may be continued, and that a separate column may in future be appended to statement J, showing the average duration of cases from the date on which the first process is issued. This will show at a glance at what stage the procedure in Court has been dilatory. The Lieutenant-Governor is disappointed to find that, though the importance of disposing of these cases as quickly as possible has repeatedly been insisted upon in previous Resolutions, the returns for the past year show no improvement in this respect. In 29 districts the average duration of cases exceeded 50 days from the date of first report to the Magistrate, while in two districts it was more than 100 days. In Durbhunga a case was no less than 717 days, or for nearly two years, under trial; while in one case in Dinajpur and in another in Midnapur so many as 442 and 404 days, respectively, were allowed to intervene between the date of report to the Magistrate and that of the issue of the process. Such delays as these are wholly inexcusable and completely stultify the whole proceedings. Again, there is apparently no reason why the average duration of a total of 31 cases in Dacca should be 148 days, when Sarun with 88 cases shows an average duration of only 4.6 days. As a means of effectually putting a stop to these delays, Mr. Veasey suggests that the cases should be entered in the Magistrate's case register. This matter will be dealt with separately. The number of cases tried in Court was 1,083, against 811 tried locally. The Lieutenant-Governor is of opinion that the increase in the number of cases tried in Courts is a move in the right direction, though he would not wish that the advantages of an efficient local enquiry should be forgotten. But the delays that are inseparable from an invariable determination

to try these cases locally have very bad effects, and His Honour wishes to repeat here the remarks made in the Resolution on the Report for 1886, that " it is far better that a case should be taken up at once in Court than that men should have charges hanging over their heads for months and months because it is not found convenient to depute an officer to the spot. There are many cases in which it is no kindness to the suspected person to make the enquiry in his village, and in which no advantage can accrue from such a procedure." The number of bad characters under police surveillance rose from 41,561 to 42,812. The increasing number on the registers is, however, the chief obstacle to effective scrutiny, and the Lieutenant-Governor is therefore glad to observe that Mr. Veasey has introduced a system of classification which, by making the duty lighter, will enable the police to devote more attention to habitual criminals.

Offences against excise laws fell from 2,753 to 2,687. The decrease was chiefly under the head of illicit possession or sale of country spirit. Opium cases decreased from 30 to 16. There was only one important case, in which two Punjabis, who were found with 41 seers of Nepal opium concealed in underjackets made with pockets fitting over their shoulders, were sentenced to a year's rigorous imprisonment each. An increase of 742 in offences against the salt laws was mainly due to Balasore, where the number of cases rose from 46 to

579. No explanation is given of this large increase.

22. Railway Police.—There was an increase of 314 in the number of cases reported. Out of 3,016 persons brought to trial 2,504 were convicted. Mr. Veasey remarks:—

"The police as a rule are very successful with pick-pocket cases, which are nearly always the work of habitual criminals; but in these days of light sentences the releases pretty well balance the convictions, and the thief on coming out returns to his old ways, only changing the scene of his operations. A case is mentioned in which an old offender sentenced to five years at the Sessions was released on appeal, as the money was found under the seat. He was sitting next the person robbed, who had his pocket slit open in the usual way, and the result may perhaps be considered unfortunate. In two cases railway thieves of this class, well-dressed men of respectable appearance, came under observation only owing to their travelling without tickets, and were then found to be old hands, who would of course have indignantly resented suspicion."

In the case of a dacoity at Paleza ghât the railway employés, who outnumbered the dacoits, excused themselves from assisting the police on the plea that they were not engaged to fight, and that if they did and got hurt they would probably be discharged. As an instance of the failure of railway cases when tried by inexperienced officers, the Assistant Inspector-General of Government Railway Police on the East Indian Railway mentions a case in which a pointsman, guard, and driver were prosecuted for gross negligence which might have been attended with the most disastrous results. The pointsman was convicted, but the driver and the guard were both acquitted, the former on the ground that it was a dark night and it was difficult for him to see, and the latter because he had "too much other work to look after between the stations." He suggests that it might be considered whether the more important cases should not be tried at the head-quarters of the district in which they occur by one of the senior officers. The Lieutenant-Governor does not see his way at present to issue a general order to this effect. The attention of the District Magistrates will, however, be called to the importance of taking up all such cases themselves, where possible, or at least of seeing that they are not tried by inexperienced officers.

One hundred and fifty-three persons were killed in 217 railway accidents, including 34 railway servants and 25 persons who committed suicide.

23. Non-cognizable crime.—Non-cognizable offences increased by 5,401, as will be seen from the subjoined table:—

				1888.	1889.
Class I				8,556	8,581
" II	15 40	1	235 C	30	33
" III				955	848
" IV			•••	56,689	56,535
" Y				9,110	9,730
,, VI	20世紀20年代			11,074	11,356
Special laws			•••	25,592	30,324
		Total		112,006	117,407

The increase was mainly in offences under "special laws," and was due to a larger number of prosecutions under the Municipal Act. In class VI cases under section 106 of the Criminal Procedure Code (security for keeping the peace on conviction, fell from 1,907 to 1,860. It is to be regretted that Magistrates make so little use of this important section, which, judiciously applied to a certain class of offenders, may be employed with the most salutary effect. The attention of district officers will be called to this matter Process was issued against 115,303 persons in 1889, of whom no fewer than 31,594 were acquitted. In many districts compliance with a summons appears to have been more or less a matter of choice, as remarked by Mr. Veasey, and the percentage of persons who appeared to persons summoned, which stands at the low figure of 78.7 for the whole province, is very low indeed in the districts of Dacca, Faridpur, Purneah, Noakhali, and Tipperah. The above figures combine to show, even when full allowance is made for compromises appearing as acquittals, that complaints are insufficiently tested before process is granted, and it will require the close and constant supervision of the Magistrate to check the failure in administration which these statistics disclose. There is perhaps some error of calculation in the case of those districts which show this percentage as over 100 per cent., and explanations will be called for from the officers concerned; it seems scarcely likely that so large a number of persons as these returns indicate would voluntarily appear before the Magistrates without the issue of process.

In last year's Resolution the Lieutenant-Governor approved a proposal made by the Inspector-General of Police that in reporting the number of cases of non-cognizable crime in which the police are employed, only such cases should be shown as are referred to them by the Magistrate for enquiry. Mr. Veasey now brings to notice that it frequently happens that in the same complaint charges, both cognizable and non-cognizable, are mixed up together, and suggests that Magistrates should, when ordering an enquiry, state whether it is to be treated as cognizable or non-cognizable in the first instance. There is no objection to the adoption of this suggestion, and instructions will be issued accordingly. The practice which obtains in the Noakhali and Tipperah districts of employing even apprentices to make preliminary local investigations under section 202, Criminal Procedure Code, is highly reprehensible, and should be at once discontinued.

24. Remands.—The number of A forms sent up rose from 35,716 to 38,605. They were disposed of as follows:—

THE MAN HE WAS A STATE OF	HIS SHE			1888.	1889.
At first hearing	HENTER	n bern tulker	Cod Day	34.6	37.3
Remanded once	44.	0.00	Oct. in	20.6	20.1
Do. twice				13.9	13.4
Do. thrice		tudle		9.8	9.2
Do. four tin	nes		***	.2	6.1
Do. five de	0.			4.2	3.9
Do. six de	0.			2.7	2.6
Do more the	an six tir	neg		5.1	5.1

There was a slight improvement in the percentage of cases decided on the first two hearings, but the percentage of cases remanded more than six times continued the same. Amongst districts it was only in Hughli, Howrah, the 24-Pergunnahs, Darjiling, the Chittagong Hill Tracts and the Gurjhats that more than two-thirds of the cases were decided in two hearings, while in Lohardugga, Faridpur, Jessore, Bogra, and Noakhali less than one-third were concluded in the same number of hearings. Mr. Veasey says:—

"A selection of cases made haphazard (in Lohardugga) brought to light one case remanded 20 times, another 10, another 9, and another 7. The Hazaribagh report mentions a case tried by a Munsif with magisterial powers which lasted for over two months, though the value of the property was only 2 annas. I have not seldom, however, seen as bad instances amongst Magistrates, and the knowledge that they are noticed soon works reform. Of the delays in Faridpur no notice is taken. In Noakhali the District Superintendent states that he finds nothing to note, and the subject is not referred to by the Magistrate, whilst the Commissioner says generally that officers were everywhere overworked. In Bogra the blame is laid on an officer who was at Dinajpur in 1888, and the Magistrate suggests that he must have been responsible for the delays noticed there in that year. There were 51 cases in this district remanded for more than six times, but it is not said how many of them were on his file. Seven cases were remanded 11 times and one 15 times."

There is no doubt in the Lieutenant-Governor's mind that these delays are to a great extent the result of a want of system and bad supervision. For instance in Purneah, where the number of cases remanded more than six times was 132 out of a total of 769 cases, a frequent excuse for the remand was, the Lieutenant-Governor learns, that the process had not been duly served, yet the late Commissioner found in the course of his inspection that no trouble was ever taken by the judicial officers to ascertain the cause of the failure; again in the sadr subdivision of the Dinajpur district, where no less than 198 cases were pending with the police and 55 with the Magistrates, the case registers, instead of being utilized, had been superseded by a special statement which must have given unnecessary trouble and have afforded insufficient information. This state of things is certainly not creditable to the officers concerned, and the Lieutenant-Governor must insist on the Magistrates exercising a closer supervision over these matters; a systematic and periodical examination of the registers, such as need occupy but little time, would, he is sure, produce a marked effect.

25. Reconvictions.—The number of persons reconvicted rose from 1,640 to

1,915. Mr. Veasey remarks that the increase-

is considerably discounted by the proof it affords that the sentences passed cannot in many instances be really deterrent, and further, that we have a large criminal population who find so little to object to in a life in jail that they begin to qualify for re-admission almost as soon as the gates close behind them. On the other hand, the police generally understand now the importance of verifying the antecedents of accused persons, and much information is thus elicited which a few years ago would have remained neglected."

The Lieutenant-Governor believes that, though there has been some improvement in this matter, much remains yet to be done, both by the police in putting the information before the Courts, and by the Courts in attaching proper importance to previous convictions in awarding punishment. Several cases have recently come to His Honour's notice in which old offenders have been treated with most uncalled for leniency, on the ground that some of the previous convictions proved against them were of a date more than ten years back, and were consequently excluded from consideration. Sir Steuart Bayley is not prepared to accept the principle involved in this explanation, and regrets to think that these and other similar cases show that Mr. Veasey is justified in saying that "authorities who are practically irresponsible (to the Commissioner) are apt at times to ignore local requirements." Amongst districts, Patna and Monghyr take the lead with 123 and 106 reconvictions respectively. There were only four districts, viz., Bankura, Pubna, Bogra and Khulna, in which the number in each case did not exceed 10. In 199 cases, as against 142 in 1888, it was proved that the accused had been convicted three times or more.

26. Criminal Tribes.—Under the directions of the Government of India, the subject of the control and punishment of Criminal Tribes is now under special enquiry, and the Committee on Police Reform has been asked to take the subject up. The Mughya Domes still continue to give much trouble, and the scheme instituted some years ago for their reclamation does not appear to have had any lasting success. The question of the retention of the Dome colonies in Chumparun is now under consideration. It is, however, noteworthy that the Magistrate of that district, while he calls them 'pilferers by choice and burglars by necessity,' is of opinion at the same time "that they get credit for much crime which is in reality the work of Ahirs, well-to-do people who thrive by thieving, and with whom the chowkidars are hand-in-glove in consequence," and the Lieutenant-Governor believes that there is much justification for this view. The Rajshahye Division, and more especially the districts of Rungpur and Dinajpur, are still overrun by miscellaneous gangs of vagabonds whose movements it is very difficult to control.

27. Absconders.—The total number of names entered during the year was 2,610, of whom 804 were arrested and 531 surrendered themselves. This subject has not hitherto found a place in the annual report. The Lieutenant-Governor fully agrees with Mr. Veasey's comments on the unsatisfactory nature of the returns on this subject, and in his remarks as to the importance of giving special attention to it, and trusts that the Commissioners of Divisions will, in the course of their inspections, personally look into the matter and adopt such measures as may lead to the submission of accurate returns for the several districts

under them.

28. In conclusion, the Lieutenant-Governor is constrained to express his opinion that a review of the results obtained by the police from their work in 1889 shows that they have obtained no marked success in dealing with crime, and that there has been a decided diminution of efficiency in the work done in Sessions cases—the most important class of cases with which they have to deal. A Commission has recently been appointed to investigate the causes of failure and, as far as may be possible, to suggest remedies. The fault does not entirely lie with the police, and it is admitted that they frequently have to contend with great difficulties. The Lieutenant-Governor is well aware that among the superior officers there are men who are devoted to their duties, and whose efforts are rewarded by a considerable measure of success; his acknowledgments are due to the District Superintendents and Assistant Superintendents whom the Inspector-General has selected for honourable mention. His Honour also recognises the zeal and ability of the Inspector-General himself.

Ordered that a copy of the above Resolution be forwarded to the

Inspector-General of Police and the Commissioner of Police, Calcutta.

Ordered also that a copy of the Resolution be forwarded to all Commissioners

of Divisions for information.

Ordered also that a copy of the Resolution and extract paragraph 49 from the Report be forwarded to the Appointment Department of this Office for information.

Ordered also that the Resolution be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

POLICE REFORM IN BENGAL.

RESOLUTION.

POLICE.

Calcutta, the 24th September 1890.

Letter No. 634, dated 22nd December 1888, from the Secretary to the Government of India, Home Department, to the Government of Bengal.

Letter No. P P 1 2, dated 9th January 1890, from the Chief Secretary to this Govern-

ment, to the Government of India, Home Department.

Letter No. 398, dated 28th May 1890, from the Secretary to the Government of India, Home Department, to the Government of Bengal.

Resolution of this Government, dated 3rd January 1890, appointing Colonel Ramsay, on special deputation, to enquire into certain matters connected with the chowkidari systems in force in Bengal. Letter No. P $\frac{P}{1}$ 2, dated 7th July 1890, from the Chief Secretary, to certain selected

officers.

The replies to the above letter received from Messrs. A. Smith, D. R. Lyall, C. F. Worsley, R. C. Dutt, C. W. Bolton, H. Savage, W. C. Macpherson, B. L. Gupta, A. W. Mackie, and J. Crawfurd.

Letter No. 208, dated 14th July, from the European and Anglo-Indian Defence

Association, to this Government.

The reply to the above letter.

In compliance with the instructions of the Government of India, the statistics of crime cognizable by the Police, reported and disposed of in Bengal during the 11 years 1878-88, have been scrutinized and compared and the results communicated to that Government.

Various circumstances were indicated which tended to affect those statistics and to prevent them from representing with perfect accuracy the number of cases which had really occurred; but, since no means existed of measuring these influences with precision, it was necessary to accept the figures shown in the statements as giving an approximately correct account of the fluctuations of crime during the series of years to which they referred.

The general inferences which have been drawn by the Lieutenant-Governor are (to use the words of the Government of India) "that although crime generally is not positively great in Bengal, and is decreasing relatively to the increase of population, certain offences show a tendency to increase; that an unduly large proportion of the crime actually occurring is not brought to the notice of the Police or of the Magistrates, and is therefore never enquired into; that the Police enquiry into a large number of the cases taken up is fruitless, and such cases never come before the Courts, and that a disproportionate number of the persons brought before the Courts are acquitted." The broad result is that upwards of 70 per cent. of serious crime goes unpunished, that at least 90 per cent. of the most dangerous offences against property remain undetected, and that in the 11 years under review the percentage of convictions among the total number of persons tried by the Courts and charged with offences included in classes I, II, III, and V never exceeded 56, and in one year fell to 52.

2. It is evidently necessary to enquire minutely into the causes of this

2. It is evidently necessary to enquire minutely into the causes of this highly unsatisfactory condition of affairs, and to ascertain by what means, whether legislative or executive, remedies capable of being made practically effective can be devised and applied. It is, perhaps, not difficult to suggest measures which would be generally useful, but the conditions under which the administration of different provinces is carried on vary so much that practical results are likely to be attained only by concentrating attention on local circumstances and requirements. For this reason the Governor-General in Council has thought it better not to appoint a general Commission to consider the question of Police reform throughout India, but has left it to the Lieutenant-Governor, if he should see fit,

to convene a Provincial Committee.

3. Having regard to the magnitude and importance of the questions involved, to the necessity for bringing wide experience to bear upon them, and for looking at them from different points of view, Sir Steuart Bayley is satisfied that the work is not such as can be properly done without a special agency or by the deputation of a single officer. He has therefore determined to appoint a Committee.

4. The Lieutenant-Governor most fully recognises the necessity of obtaining from the public all the information as to facts, and all the advice for future action which can be made available for his assistance. It is for the advantage of the public and for the protection of their lives and property, it is to save them from oppression and needless harassment that the present enquiries are being undertaken; and the Lieutenant-Governor quite understands that they have opportunities of observing Police work from points of view which are not accessible to officials. Still he thinks that, in the beginning at all events, a small official Committee will be best adapted to direct enquiries and collect information. He desires that information should be collected from all sources, but there is in Police work very much that is technical and requires official experience to understand and appreciate its various relations. Many plausible suggestions are likely to be brought forward which may not be capable of introduction into any practical scheme; but the detection of the difficulties would be scarcely possible to persons who have not had the advantage of special experience. At a later stage His Honour will probably enlarge the Committee, so that the bearings of whatever proposals may be deemed by it worthy of consideration may be ascertained as accurately as possible.

In this way Sir Steuart Bayley hopes to derive the greatest profit from unofficial assistance, while shortening the enquiry and keeping its results

within the limits of practicability.

5. The Committee as now to be constituted will consist of the following officers:—

Mr. John Beames, c.s., Commissioner of Bhagulpore ... President. Mr. J. F. Stevens, c.s., Judge of Gya ... Mr. J. C. Veasey, c.s., Inspector-General of Police ... Members.

Mr. Beames will be on special deputation from the date of his return from privilege leave. Mr. Stevens will serve on the Committee in addition to his own duties, until arrangements can be made for relieving him of the latter, when he will be on special deputation. Mr. Veasey will serve on the Committee in addition to his own duties, unless hereafter there should appear to be sufficient reason for making some other arrangement.

The Lieutenant-Governor has not thought it necessary to place on the Committee any Police officer in rank inferior to the Inspector-General, because he is aware that the help of the Deputy Inspectors-General will be available, and has no doubt that it will be freely given. His Honour also hopes that the Committee will receive the cordial co-operation both of other officers of Government and of unofficial gentlemen.

6. In the meantime the papers have, by direction of the Lieutenant-Governor, been circulated to certain experienced officers for the purpose of obtaining their general views. The reports have been nearly all received, and His Honour's acknowledgments are due to the writers. They contain much variety of opinion, and there is not a little in them which the Committee may find worthy of consideration. It is not necessary to discuss the different suggestions which have been made, but His Honour desires to record a few observations, arising partly out of these reports and partly out of the Government of India.

7. In reflecting upon the causes of the comparative failure of the Police in Bengal, it is necessary not to lose sight of the obstacles which the Police, as well as the Magistracy, have to surmount. Foremost among our difficulties is the character of the general mass of the population from which the Police are drawn. The Police are of, and from, the people; and as are the people so are the Police. To speak broadly, the people have but a faintly developed sense of public morality, of the far-reaching duties of the individual towards the public at large; they view without reprobation the giving and taking of bribes; they will not interest themselves, in matters outside their immediate personal concerns, to oppose oppression or blackmail or false evidence or other offences against the public. The Police, therefore, have not the sharp incentive of public opinion to keep them up to the mark, and the discipline to which they are subjected is not sufficient to raise their standard of public morality in any marked way above that of the class to which they belong. Mr. Macpherson describes the state of public feeling in this connection as follows:—"In Bengal" (he writes) "it is, I believe, much more difficult than in England to bring offenders to justice, because we have not here so high a standard of truth and so general sympathy with public justice. The public spirit which in England will prompt strangers and disinterested persons to give evidence for the Crown and for the defence, with no object but that truth may be established, is not often found in this country. The mass of the people have not the intelligence and sturdiness of character which should make them denounce the oppression of a neighbour by a zemindar, or refuse to pay blackmail to the cattle thief, or be ashamed to protect the house-breaker and receiver of stolen goods by professed ignorance of his guilt. Aggrieved persons and witnesses are often refuetant to go to the authorities, because the authorities are dilatory, troublesome and inefficient, and thus cause and result act and re-act on one another. The only remedy for this want of public spirit is to spread education among the masses." Another difficulty which Mr. Macpherson points out arises from the frequent connection of crime with complicated questions of title to, and possession in, land and of tenancy and rent. Other difficulties arise out of climate; houses are left open and property unprotected, while the rains supply facilities for burglary which amount almost to temptation.

But these conditions must for the present purpose be considered as unavoidable. "They justify" (as Mr. Macpherson says) "a demand for good officers. We want better Magistrates, better station police and better village police."

The problem to be solved is how these are to be attained.

8. It is admitted universally that the state of the village police is far from being satisfactory under any of the systems which are in force, but there is much variety of opinion as to the remedy. While some would foster the village punchayet and enlarge its control over the village chowkidars, others would go so far as to abolish the village chowdidars entirely and supply their place by an army of constables. Others, again, think it possible to retain the local character of the chowkidar, while binding him more closely to the Police and subjecting him to more strict discipline than heretofore. This is, perhaps, the most difficult and important question which the Committee will have to consider; its solution is not now being attempted for the first time, and the previous essays, their results and their teachings will all have to be passed in review. The Committee will not be obliged to devise an absolutely uniform scheme to

be applied to the whole province. They will, perhaps, find that different tracts require different treatment, and it will be open to them to diversify their

suggestions accordingly.

9. Before the appointment of this Committee was contemplated, the Lieutenant-Governor deputed Colonel Ramsay, of the Bengal Police, who was known to have given great attention to the subject of chowkidars, to collect information on various points connected with the institution. His enquiries have now become merged in the more extended investigations of the Committee, and the information which he has obtained is available, and will, it is hoped, be found useful. Sir Steuart Bayley has not found it necessary to ask the Government of India to have the period of Colonel Ramsay's deputation extended, but, if requisite, arrangements can readily be made by which the Committee may obtain his assistance.

A question connected with the foregoing is how far the duty of reporting erime which the law imposes on landholders can be insisted on, and whether any village organization can be expected or relied on to act either co-ordinately

or as an efficient substitute.

10. Very great importance must be attached to the improvement of the investigating officers. It is universally admitted that their present pay and prospects are insufficient to attract trustworthy and competent men. In the lower grades especially, it is plain that such a man can barely live on his pay; while, even in the higher, the pay is but an indequate remuneration for the high qualities and great responsibilities which are required of an officer in charge of a station. Neither the names nor the scale of pay suggested by the Government of India are to be taken as final, and it will be open to the Committee to make their own proposals. As at present advised, the Lieutenant-Governor is not inclined to think it altogether immaterial whether an officer employed in investigation is called a Head-constable or a Sub-Inspector. The higher title does in practice, he believes, connote a higher standard. He would also invite the Committee to consider whether the scale of pay provides for sufficiently even and frequent promotion, or whether the increments proposed are not too large and sudden. Due regard is to be paid to financial considerations, but the Lieutenant-Governor would observe that the scheme to be submitted to the Government of India is one which is expected to "place the Police of Bengal apon a satisfactory basis as regards pay and promotion." He is, therefore, prepared to accept recommendations involving a moderate increase in expenditure.

11. The amelioration of the position of Inspectors is, perhaps, not so urgent as that of the lower grades, but it nevertheless demands the careful consideration of the Committee. A suggestion has been made that deserving Inspectors may be rewarded by being appointed Deputy Magistrates and Collectors. Independently of the fact that an additional difficulty would thus be introduced into the recruitment of the Subordinate Executive Service, it is, perhaps, open to question whether this measure is desirable in itself. The experiment, so far as it has been tried in Bengal, has not, it is believed, been attended with success, and several of the officers consulted object to it, and think that it would be preferable to give higher promotion in the Police Service itself; doubtless the whole matter will

receive due attention from the Committee.

12. The pay of constables is another topic for discussion, and in this case it will be well to see whether the same scale is appropriate to the whole Province.

13. The improvement of prosecutions is to be considered. Is this likely to be best attained by separating the appointment of Court Inspectors and other Court officers completely from the station police, so that they may be used only as prosecutors and for the Court clerical work, or by retaining the present connection and compelling the officers set apart for the Courts to pass certain

examinations, or is there some other and better expedient?

14. The Committee is invited to deal with the question of recruitment of the Police of all grades below that of Assistant Superintendent. One proposal which has been made is that the Head-constables should be simply what their name implies, and that there should be a sharp line of demarcation between them and the Sub-Inspectors; further, that appointments should be made direct to Sub-Inspectorships, endeavours being made to attract well-educated men of respectable families. This would probably involve the creation of a small grade of probationers. The Committee will advise the Lieutenant-Governor

whether any, and if so what, educational tests can be applied. He will also be obliged to them if they will consider whether anything reasonable and compatible with discipline can be done to render l'olice service more attractive than

15. The weakness of the Magistracy both in numbers and in individual power is brought prominently to notice in these papers. It is beyond question that the number of officers available both in the Civil Service and the Subordinate Executive Service is quite inadequate to the increasing requirements of the province. Apart from this general deficiency, it is to be observed that the exigencies of the Sonthal Pergunnahs and certain other special localities require that they should generally be officered by Europeans, and it will be necessary that arrangements should be made to recruit suitable persons. In this connection the suggestion that the junior European Police officers should undergo some magisterial training will, doubtless, receive attention.

16. The Lieutenant-Governor also desires the Committee to report on the best means of supervising the work of Subordinate Magistrates; the conviction is frequently forced upon him by his own observation that at present the supervision is not generally sufficiently systematic and persistent, and he is constrained to believe that very much depends upon the strictness of the individual

Commissioner or Magistrate.

17. The Lieutenant-Governor is by no means disposed to sympathize with the sweeping denunciations of the Native Magistracy which he sometimes sees. He believes that the Magistrates are very often industrious and well-meaning men, but they receive very little education of a kind specially adapted to fit them for their duties on the Bench. A Munsif will have had the advantage of watching the procedure of the Courts for some years, and thus of learning by experience, not the mere letter of the law only, but the method in which the discretionary powres allowed by the law are exercised in practice. The Deputy Magistrate has no such advantage. Often the first case which he has seen tried is the first which he has tried himself; at any rate it may be so. Again, the legal practitioners who appear before the Deputy Magistrate are of an inferior class in respect of their knowledge, both technical and general, and far from affording him the assistance which a Munsif gets from a well-educated bar, they do more harm than good in influencing the general conduct of cases. To counteract these influences, Sir Steuart Bayley is sure that what is required is the kindly but firm and frequent interposition of the superior officers. He will be glad to learn from the Committee in what way they think this object can best be attained.

18. Sir Steuart Bayley would invite the attention of the Committee to the 10th paragraph of Mr. Lyall's letter of the 28th May, which has reference to the extended use of the provisions of the law for the prevention of offences. He wishes to know whether it is possible or advisable to make rules with this object, and if so, what form these rules should take, having regard on the one hand to the protection of the public from professional criminals, and on the other to the necessity for ensuring that the law may not be abused, so as to be a powerful

engine of oppression.

19. The Lieutenant-Governor has purposely abstained from putting before the Committee any series of definite questions of a nature to hamper them in their deliberation. He has little doubt that as their labours progress points, at present unforeseen, will arise; and it is possible that new solutions of some of the difficult problems before them may suggest themselves. He is anxious, therefore, that members of the Committee should regard themselves as free to consider and report on any matter which they may regard as relevant to their enquiries. He expects their report to be submitted within six months from the date of the President's deputation.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secretary to the Govt. of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE COMMISSIONERS OF THE PORT OF CHITTAGONG FOR THE YEAR 1889-90.

No. 2683 Marine.

GOVERNMENT OF BENGAL-MARINE DEPARTMENT. RESOLUTION.

Dated Calcutta, the 26th September 1890.

READ-

The Administration Report of the Commissioners of the Port of Chittagong for the year 1889-90.

The report, which is submitted by the Commissioners of the Port of Chittagong, is the first report of their administration of the Port. Although a Port Trust was constituted in 1887-88, the Chittagong Port Commissioners' Act, 1887, not having been brought into operation, the Trust had no legal status, and the appointments and elections were subsequently cancelled. The law came into force from the 25th April 1888, and in June of that year a Trust was lawfully established. The entire management of the Port and of the Port Fund was not, however, as stated in the Resolution on the Administration Report of the Port for 1888-89, made over to the Commissioners until the 1st April 1889, and the year under review is the first in which the Act has been in full operation.

2. The management of the Pilot Service at Chittagong was transferred to the Commissioners during the year with a contribution of Rs. 1,000 per annum to their revenues to meet the charges which will be incurred by them on clerical establishment, &c., in working the Pilot Service. Permission was given to the Commissioners to deal with moveable property up to the value of Rs. 1,000. Since the close of the year, rules have been made under sections 17 and 45 of Act IV (B.C.) of 1887 (the Chittagong Port Commissioners' Act), and the scale of charges prepared under section 33 and the bye-laws made under section 64 of the Act have been approved. New rules under section 6 of the Indian Ports Act, 1889, have also been made for the Port.

3. The purchase of a steam-tug for the Port, the necessity of supplying which had been urged upon the Government for some years past, was sanctioned during the year, and the Commissioners are now making arrangements for procuring the vessel. The cost of the tug will be advanced to the Commissioners by the Government.

4. The financial position of the Port Trust is satisfactory. The Port Fund opened on the 1st April 1889 with a credit balance of Rs. 67,958, being the sum made over to the Commissioners of the Port by the Accountant-General, Bengal, and it closed with a balance of Rs. 90,197 on the 31st March 1890. These figures are exclusive of a sum of Rs. 20,200 invested in Government securities. The receipts for the year amounted to Rs. 56,218, and the charges to Rs. 33,979.

5. The rice trade of the Port, a somewhat fluctuating one, again fell off during the year under review, owing, it is stated, to the exportation to Central Bengal of the rice produced in the northern districts of the Chittagong Division, but the loss was more than compensated by a considerable increase both in the quantity and the value of the jute exported, and the results of the year were, on the whole, satisfactory.

6. The following statement shows the number and tonnage of vessels which visited the Port during the year as compared with the figures of the preceding year:—

	188	9-90.	1888	-89.
European vessels trading with Foreign { Enterports.		Tonnage 60.701 59,355	Number. 41 44	Tonnage. 55,774 59,655
Native craft trading with Foreign ports { Enter Clear		808 701	4 6	814 949
Vessels trading with Home ports { Enter		176,550 180,053	845 836	165.318 165,495

7. The number of vessels engaged in the foreign trade fell off by 11, but their tonnage exceeded that of the previous year by 4,373 tons. The decline in the number of vessels is attributed to the decline in the grain exports, while the increase of tonnage is due to the employment of larger vessels in the jute trade.

8. Of the 41 sea-going vessels which cleared for foreign ports during the year, the destination of 25 was the United Kingdom, of 3 the Mauritius, of 4 the Maldives, of 8 the United States, and of 1 Trinidad. Those for the United Kingdom and the United States carried jute; the remaining 8 rice. The number of vessels that cleared with rice in the preceding year was 22.

9. The increase in the number and tonnage of vessels entering the Port from Home ports is due chiefly to Chittagong and other native vessels engaged in the jute trade making more frequent trips between Chittagong and Narain-gunge in tow of steamers belonging to the jute exporters. There was a decrease in the tonnage of steamers, although their number was in excess of that of the previous year. This was owing to the British India Steam Navigation Company having run bi-weekly steamers of small tonnage for several months of the year.

10. The subjoined table gives the statistics of the principal articles of

export and import for the past eight years-

	188	32-83.	1888	1.84.	1884	-85,	1885	-86.	1886	-87.	1887	-88.	188	8-89.	1889	-90.
	Quan- tity.	Value.	Quan- tity.	Value.	Quan- tity,	Value.	Quan- tity.	Value.	Quantity.	Value.	Quantity.	Value.	Quan-	Value.	Quantity.	Value
Exports.	Tons.	Rs.	Tons.	Rs.	Tons.	Rs.	Tons,	Rs.	Tons.	Rs,	Tons.	Rs.	Tons.	Rs.	Tons.	Rs.
Grain- Foreign ports Home ports	39,138 42,177	18,20,132 14,49,265	33,849 31,743	20,52,185 18,78,575		8,32,645 15,08,891	32,017 31,493	16,18,586 25,87,430		9,40,693 2,05,621	32,262 26,349	21,67,353 11,70,274	18,682 20,111	12,99,728 9,87,742		7,78,
Total	81,316	32,69,387	65,592	34,30,760	37,852	23,41,586	63,510	42,06,016	18,919	11,46,314	58,611	33,37,627	38,798	22,87,470	T	Abresid
Jute lbs.	57,463	73,23,050	53,228	76,69,330	53,164	61,88,602	48,951	54,70,418	65,122 1,037,180			98,40,670 6,01,084		95,37,959 6,34,035		
Imports			77.6	ALE AL											5386	
Mineral oil Gals. Salt Tons.	197,058 11,755	77,992 1,93,472	294,444 16,393	1,46,287 2,74,828		4,01,312 3,62,802	289,253 9,878	1,38,887		2,90,980 2,40,300		8,26,543 2,20,145		92,441		2,76,

11. The report under review does not furnish statistics of the different articles exported to Home ports, nor does it supply information regarding the quantity of salt and oils imported during the year. The Lieutenant-Governor has in past years desired that the subject of trade should be dealt with in greater detail in the report, and he hopes that the Commissioners will not overlook this important point in future.

12. The importation of mineral oil, which, for the reasons explained in the Resolution on the Administration Report of the Port for 1888-89, fell off during that year, made a considerable advance during the year under review, and there was an increase of Rs. 1,84,907 in the value of the oil imported as compared with the figures of the previous year. The falling off of Rs. 1,32,693 in the value of salt imported during the year is attributed to the unusually large

importation of the year before.

13. The jetty was kept in good order, and the depth of water at its head remained unchanged. The jetty opposite the double moorings, which was erected in 1888-89, has proved convenient to the public. The buoys and moorings, with the exception of the middle bar red buoy, the spire of which is broken off, were kept in efficient condition. On account of the extension of the Eastern Sand it has become necessary to move the moorings further west, and it is proposed to relay them next cold season. The Port boats were kept in good order.

14. The Commissioners are of opinion that a penalty on the officer in charge of a vessel, the lights of which have been allowed to get out of order, would be more effective than her detention, and they suggest that some punishment, either in the shape of a fee for the inspection of the lights or a fine, may be provided to meet such cases. Under section 30 of the English Merchant Shipping Act, 1873 (36 and 37 Vic., Cap. 85), a fee is leviable for

The figures are not given in the report.
 † These figures represent the quantity exported to Poreign ports.

each visit made to a ship on the application of the owner, and for each visit made when the lights are found defective. The Indian law does not provide for the levy of a fee for the inspection of lights, and the question does not appear to have been raised when the Act was passed. The detention of a ship which is not properly provided with lights and with the means of making fog signals is necessary for the protection of life and property. The proposal to levy a fee for the inspections, as is done in the United Kingdom, will receive the consideration of the Lieutenant-Governor.

15. The health of the shipping in the port was not so good as in the year before. There were 73 admissions into the hospital against 28 in the preceding year, and the number of deaths was 6 against 2 in 1888-89. With a view to provide proper medical attendance and sufficient hospital accommodation for the shipping at the port, the levy of hospital port dues at the rate of one anna per ton on all ships manned by European crews has been sanctioned under section 49 of Act X of 1889 (the Indian Ports Act),

with effect from the 1st April 1890.

16. There were four wrecks during the year against two in 1888-89. Three of these were brigs wrecked in the Megna river on the voyage from Naraingunge to Chittagong. Their jute cargoes were totally lost. The fourth wreck was that of a brig bound to Chittagong with a cargo of planks. It occurred to the south-west of Kutubdia. The vessel and her cargo were lost, but the crew was saved. Two fires occurred in the port on vessels laden with jute, one of which was totally lost.

17. The barque Grosvenor, which grounded on the D'Apres shoal near Chittagong, and was given up as lost, was, as stated in the Resolution on the Annual Report of the Port for 1888-89, found drifting about near the mouth of the Shabazpore river. The wreck has since been salved, the vessel and her

cargo having suffered little damage.

18. The lights at Kutubdia and Norman's Point are both inefficient, and it is hoped that new lights will be provided at both places before the close of

19. The Pilotage Fund is in deficit. The year under review opened with a debit balance of Rs. 2,938, and it closed with a similar balance of Rs. 4,970. The receipts during the year amounted to Rs. 12,137, and the charges to Rs. 14,170.

20. The charges of the Port are now distributed between the Port and Pilotage Funds in accordance with the orders contained in the letter [No. 1202T.—M.] of the 28th June 1886; but having regard to the altered circumstances of the Port, the distribution of the charges will have to be examined. In order that this may be done, the Lieutenant-Governor desires that the Commissioners will furnish the details of the expenditure which was incurred in 1889-90 under the following heads and debited to the Pilotage Fund :-

> Vessels and boat establishment. Contingencies. Stores and repairs. Contingencies. Petty construction and repairs. Miscellaneous.

21. It is understood that the pay of the Harbour Master is at present charged to the Pilotage Fund. The Lieutenant-Governor desires that the Commissioners will report whether his salary should not in future be debited to the Port Fund.

By order of the Lieutenant-Governor of Bengal,

J. M. MCNEILE, Col., B.E., Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 27th September, 1890.

	No.	District and d	ate of	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEI	NGA	L. Western Dis	tricts.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	1	Culna	ept. 27, '90	2.47 1.66 4.03	Weather—rainy and cool. Aus harvested; outturn estimated at 14 annas. The rain has done much good to amun and sugarcans. Price of common rice:—Srs.
		Ranigunge		ta bashing	Burdwan 16 Culna 16 Ranigunge 16
	2	Bankoora	., 27, '90	5.97	Sky overcast with rain till the morning of 27th; weather has since cleared. Copious rain during the week. Prespects of crops excellent. Common rice selling at 19 seers per rupee at Sudder and 17 seers at Bishenpore.
48.	8	Birbhum Rampore Haut	., 27, '90	5·54 4·40	The rain came in the very nick of time, and the prospects are as brilliant as possible.
BURDWAN DIVE.	4	Midnepur	,, 27, '90	4.31	Daily rain. Prospects much improved, especially in the Contai subdivision, by the heavy rain of the week. Sowing of indigo begun. Price of cocoons in Ghatal stationary. Price of common rice:— Srs. Ch.
BURI				iliz disi Pro tu	Sudder 16 0 Ghatal 16 13 Tumlook 14 3
	5	Serampore	,, 27, '90	1.66	Weather—showery with heavy rain. The rain has improved prospects greatly. Prices of common rice:—
		Jehanabad	•	0.49	Sudder 13 Serampore 13 Jehanabad 16
		Howrsh Uluberiah Central Distr	" 27, '9	4·78 0·78	Weather—seasonable. Harvesting of aus and jute nearly finished. Prospects of amun favourable owing to recent rain. Price of coarse rice about 14 seers per rupee.
	6		ept. 29, '90	5.48	Weather—overcast, stormy, and heavy rain. Harvesting of aus and jute and transplanting of amus finished. Prospects of standing crops continue good except in the small flooded area. Gratuitous relief is being given to the destitute sufferers at the late floods in than Baduria. Prices stationary.
DIVE.	7	Nuddes Kushtes Meherpore Chuadanga	,, 27, '90 	3·29 2·42 3·86 1·10	Weather—cool and cloudy with heavy rain. Sowing of winter crops going on. Kalai on chur lands in the Kushtea subdivision almost destroyed by rise of rivers and heavy rain during the week. No change in the price of rice.
PRESIDENCE	8	Ranaghat Khoolna Bagirhat Satkhira	,, 27, '90	0.78	Weather—rainy. The flood has nearly subsided. Prospects of amun in the flooded thanas bad; elsewhere very good. Aus harvest nearly completed; outturn about 10 annas.
	9	Jessore Jhenidah Magura Narail	,, 27, '90	1·81 0·22 0·52	Weather—cloudy with occasional rain, and windy. Rivers again rising slowly in the Magura and Narail subdivisions. Sowings of cold-weather crops and indigo going on, and prospects good. Enquiries about the damage done by the flood are in progress, and charitable relief is being giving in the Bongong
	10	Bongong Moorshedabad	., 27, '90	Figures not given.	and Jhenidah subdivisions and in parts of the Sudder subdivision. Weather—rainy and overcast. Harvesting of bhadoi almost completed. The rainfall of the week has done much good to haimanti paddy. Kalai is being sown and lands prepared for rubbi. Charitable relief and agricultural loans are being given.
	11	Dinagepur Thakurgaon	,, 27, '90	3·82 0·77	Weather—cool for the time of year. A cyclonic storm on Friday (26th) night. Prospects of crops continue favourable. Price of rice unchanged.
	12	Rajshahye Nattore Nowgong	" 27, '90 	1.66 2.88 1.11	Weather—cool and rainy. Prospects of crops at Nattore and Nowgong fair. Floods subsiding in Nowgong. Ganges rising again at Beauleah, but prospects of crops as yet not unfavourable.
DIVE.	13	Rüngpur Nilphamari Gaibanda	,, 27, *90 	2·85 4·02	Weather—overcast and sultry. Rain threatening. It is wanted for the young amun plants. Cold-weather crops, such as kalai, &c., are being sown in places. Prices abnormally high.
RATHRANTE DIVE.	14	Kurigram Bogra Sherpur Nowkhilla	., 27, 90	0.61	Weather—mornings and nights chilly. The whole week has been more or less cloudy. Amus is still being transplanted, and this crop and sugarcane look promising. Reaping of aus completed; estimated outurn 15 annas. Jute is still being cut. Common rice selling at 19 seers per rupee.
R	15 16	Pubna Darjeeling	" 27, '9 " 27, '9	1.17	Weather—cool and rainy. Prospect of amun good in Serajgunge subdivision, but not good in Sudder subdivision. Prices stationary. Weather—fair. Transplantation of winter rice at Siliguri finished, and lands are being ploughed for mustard and pulses. Bhutta, chota marua, and
	17	Silliguri	" 27, '9í		kagni in the hills are being harvested. Bhadoi paddy reaped. Haimanti paddy progressing favourably. Weather—hot and cloudy with rain on the last day of the week. About 15 annas of haimanti paddy transplanted. Average outturn of jute and one paddy reported to be 12 annas. Prices stationary.

	No.	District and return		Rainfall at Sudder Station in inches.	
- 17	NGAI	L—concluded.			the body to the first of the control
D PL	NUA		104.314		
		Eastern D	istricts.	250	
	18	Daccs	Sept. 27, '90	0.21	Weather—seasonable. Jute nearly harvested. Amun doing well. River falling seadily. Fodder available. Common rice sold at from 13 to 15 seer per rupee.
DACCA DIVE.	19	Furreedpur	" 27 , ' 90	2.34	Weather—seasonable. State and prospects of amun rice fair. Manufacture of jute in progress. Rice selling at 14 seers per rupee in Goalundo and Madari pur subdivisions and 13 seers at head-quarters. Cattle suffering for fodder.
Man	20	Backergunge Bhola Perozepore	,, 27, '90 	4.06 2.05 1.07	Weather—seasonable. State and prospects of crops good. Common rice selling at about 13 seers per rupee.
	21	Mymensingh	Sept. 27, '90	0.65	Weather-hot and bright, but 26th and 27th windy and rainy. Amun padd thriving well. Harvesting of jute still going on. Kalai is being sown
VB.	22	Chittagong	,, 27, '90	1:37	Common rice sells at 13½ seers per rupee. Weather—seasonable. About 15 annas of aus cut. Amun transplanted ove 13 annas of land. Prospects fairly good. Prices steady.
ONG D	23	Noakholly	,, 27, '90	7.10	Weather—seasonable. Transplantation of amun nearly completed. Price of rice stationary.
CHITTAGONG DIVE	24	Tipperab	,, 27, '90	2.07	Weather—seasonable. Jute being cut: prices fairly good. Amun being transplanted extensively; prospects good. Price of rice stationary.
2	25	Chittagong Hill Tracts.	Sept. 25, 90	1.90	Weather—rainy and cloudy with occasional sunshine throughout the week Harvesting of late jum paddy continues. Cotton in flower. Sugarcan and late rice in low lands progressing. Common rice is being sold at 12 seer
BEI	HAR.	Hill Tipperah	,, 26, '90	2.49	Weather—days hot; nights cool. Harvesting of jute continues. Amun thrivin well. Til and cotton in good condition. No change in prices.
5	26	Patna Barh Behar	" 27, '90 …	0.72 1.50 1.21	Weather—cool and cleudy. Resping of bhadoi crops nearly finished. Padd looks well. Rain during the week very beneficial to paddy. Rahar an jowar flourishing. Prices of food-grains stationary.
	27	Dinapore Gya	,, 27, 90	2·71 0·26	Weather—cloudy with drizzling rain for the last day or two. The rainfal has been very beneficial to paddy and other standing crops. Copious rain has since fallen, and prices of food-grains have decreased.
	28	Shahabad Buxar Bhabuah Sasseram	,, 27, '90 	4·12 4·33 1·76 1·57	Weather—much cooler. Paddy ought to be generally a very good crop Hathia rains set in yesterday (26th), and there is apparently a good quantity of rain yet to come down. Prices stationary.
PATRA DIVE.	29	Durbhunga Madhubani Somastipur	,, 27, '90 	0·33 0·61 0·02	Weather—stormy and rainy in the latter part of the week. Bhadoi harvesting completed; outturn expected to be 10 annas all round. It has been raining since yesterday (26th), and will do immense good to the winter rice crop Lands are being ploughed for rubbi sowings. Prices stationary.
	80	Mozufferpur Hajipur	,, 27, '90	0·50 1·26	Heavy rain falling at the time of report. It appears to be general and ensure a good rice harvest. All crops on the ground doing very well. Land is being prepared for rubbi sowings.
	31	Sarun Sewan Gopaigunge	,, 27, '90 	0·52 5·88 2·07	Weather—seasonable. Occasional squalls. Heavy rain, which has been fall ing since the evening of 26th, will secure the rice where there is any, and will supply moisture for the rubbi which will be sown at once. Prospects
	32	Chumparun Bettiah	" 27, '90 …	3.66 0.86	very good. Weather—rainy and squally. Good showers of rain fell during the week, bene fiting the paddy crop, the prospects of which are very good indeed. Har vesting of bhadoi crops nearly over, and the new grains are selling in the
	33	Monghyr Beguserai	" 27, '90 …	2·03 0·61 1·53	markets. Price of makas falling. Weather—hot and clear in the beginning of week; latterly cool and cloudy Stormy this day (27th), and rain falling at time of report. Winter rice much benefited by rain. Rubbi sowing commenced in places.
DIVE.	34	Jamui Bhagulpore Banka Mudhepura	" 27, ³ 90	1·82 0·31 1·20	Weather—cloudy. Strong east wind. Raining at time of report. State and prospects of crops good. Bhadoi harvest over. The rain which is falling will be favourable to standing crops.
BHAGULFORE DIVE.	35	Soopool Purnesh Kishengung Arrareah	,, 27, '90	3·11 4·71 4·78 4·81	Weather—stormy with rain. Prospects of aghani rice everywhere favourable Good rain now falling. Preparation of lands for rubbi crops progressing.
Bi	36	Maldab Chanchal Shibgungo Gajole	" 27, '90 	1.84 0.20 1.46 2.32	Weather—generally cloudy and rainy. East wind prevails. Prospect of winter rice crop favourable. Kalai sowing and preparation of lands for rubbi sowings going on. A great deal of kalai sown in the dearah tract has been damaged by the rising of the Ganges. Price of common rice stationary.
	37	Sonthal Perghs Deoghur Godds Jamtara	. " 27, '90	1.76 1.36 0.91 3.02	Weather—rainy and cool. Good rain has fallen everywhere except at Godda and Rajmehal. Prospects of winter rice excellent, and a full crop may be expected.
		Pakour Rajmehal		3·21 0·56	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	
)R	ISSA			
	88	Cuttack Sept. 27, '90	14.03	Weather—seasonable. Resping of bara beali has commenced. Recent rain has improved prospects of early sarad in Jajpur subdivision. Prospects generally good.
1	89	Pooree " 25, '90 Khoorda … Banpur …	11:00 3:05 5:11	Weather—gloomy. Weeding of sarad crop going on. Beali is being harvested. Miscellaneous crops doing well. Price of common rice stationary.
HC	40 TA	Balasore " 27, '90 NAGPORE.	16.67	Weather—very rainy with a little wind. Much of the district is under water. It is too early as yet to estimate the effects of the flood.
	Sout	h-West Frontier Agency.	Follow	
	41	Hazaribagh Sept. 27, '90	3.33	Weather—cloudy and almost constant rain. Prospects of winter rice excellent. Gora paddy and gundli have yielded 8 to 12 annas, marua about 8 annas, and Indian-corn from 2 to 6 annas. Prices easier.
	42	Lohardugga ,, 27, '90 Palamow (up to 22nd Sept.)	5·33 1·16	Weather—seasonable. Rain daily during the week, which has much benefited the winter rice crop. Gora rice is being harvested. Prices steady.
	43	Singbhoom Sept. 27, '90	1.99	Weather—seasonable. Cloudy; heavy falls of rain yesterday (26th). Rain has removed all fear for the winter rice crop, which is now reported to be safe everywhere. Gora paddy has yielded a 16-anna crop, and other bhadoi crops have yielded well. Only the bera land crops have suffered from the late drought. No change in the price of rice reported this week.
1	44	Manbhoom ,, 27, '90 Govindpore	2·39 2·52	Heavy rain with occasional breaks. The weather has been distinctly beneficial to the crops, and all anxiety is at an end so far.

Published for general information.

CALCUTTA; REVENUE DEPT., The 30th September, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 21st to 27th September 1890.

			jo s	meter		Твмрег	RATURB			HYGROM	ETRY.		WIND.			
Month.	Date.	Maximum in sun.	Number of hours bright sunshine.	Mean pressure barometer at 32° Fabr.	Mean,	Maximum,	Range.	Minimum.	Mean wet bulb,	Vapour pressure.	Dew point,	Humidity.	Prevailing direction.	Miles recorded.	Rain.	WEATHER,
		0		Inches.	0	0	0	0	0	Inches	0	%			Inches,	TO THE
Sept.	21st	147.8	4.9	29.650	82.9	88-3	10.4	77.9	79.8	0.975	78.5	87	SE by S, ESE and	67	0.02	Chiefly cloudy
13	22nd	143.5	1.1	-688	80.7	84:7	9.0	75.7	78.3	-938	77:3	89	E and ENE	95	0.65	Chiefly cloudy o, g, d, t, p
11	23rd	141.8	0.2	.782	79.6	82-6	5.8	76.8	77-2	•903	76.1	89	E and ESE	174	0.09	Chiefly cloudy
"	24th	121.5	Nil	799	79.1	81.2	6.2	75.0	76-7	*887	75.6	89	E and E • E	115	0.02	Cloudy, o, g, d.
n	25th	119'5	"	.727	78-7	81.5	6-8	75.2	76.4	-882	75.4	90	E and ESE	106	0.16	Cloudy, o, p.
	26th	92-9	,,	-665	76-2	81-2	8.5	72-7	75.1	-858	74.6	95	E and ESE	124	1.86	Cloudy, o, g, p,
11	27th	183 7	1:1	-676	80.8	85.5	13.7	71.8	78.0	.923	76.8	88	SSE and variable	163	3.41	Chiefly cloudy

		L. A. S.			Inches.
	The mean pressure of the seven days				29.712
	The average pressure of the corresponding period for	24 years, S	G.'s Office		29.717
					Hours.
	The total number of hours of bright sunshine				7.3
	The maximum possible number of hours of sunshine		r agus		84.4
	The mean temperature of the seven days				79.7
	The average temperature of the corresponding period	for 24 year	s, SG.'s Of	fice	83.0
	The extreme variation of temperature		- The (10)		16.5
	The manipum temperature			***	88.3
			A district		Miles.
	The highest velocity of the wind in one hour				12
		de la Vincetta			lbs.
	The highest pressure of wind on one square foot	•••	•••		P
					%
	The mean relative humidity		***		90
	The average relative humidity of the corresponding p	period for 24	years, SG	.'B	
	Office	•••			86
					Inches.
	The total fall of rain from 21st to 27th September 18				6.21
	The average fall of the corresponding period for 24 ye	ars, SG.'s	Office		2.19
ë	The total fall from 1st January to 27th September 18	90		•••	48.96
	The average fall of the corresponding period for 24 ye	ears, SG.'s	Office		58.14

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.
o, overcast; t, thunder; d, drizzling rain; p, passing temporary showers; g, gloomy; A, dew. J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 29th September 1890.

Meteorological Report of the Province of Beng

ISTOR			47						sı	ATIO	OF	SER	VATI	ONS.				
DIV			Aı	R PRESS	URE.	w	IND.	1				TE	мрин	ATURE.				
MHTROROLOGICAL DIVISION.	DISTRICT.	Representative station.	Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean,	Prevailing direction.	Mean wind ve-	Highest during week.	Date.	ter S	Lowest during week,	Section 1	Date.	Mean maximum temperature.	Mean minimum temperature of	Mean daily tem- perature of	Variation from	42
1	5	Pooree Gopalpore	29.693 29.678			Variable	247	87:7		ep. 26	76.6 75.8	24th 23r.1	Sep	. 85°0 85°5	78.0			Ī
1	Pooree {	False Point	29.705	29.727	250	Charles and the same of the sa	295	87:4		ep.	78'6	24th	17	88 9	76.0		-3	20
ORISSA	Outtack	Cuttack	29:643	29.725	035	easterly Easterly	53	90.8	21st		74'8	26th		86.0	76.8	81.4	-2	311
2:	Balasore	Balasore	29:685	29 744	-1017	CONTINUE OF	91	88'4	22nd	,,	72.8	25th		83.8	76:8		-2	123
1	South-West Midnapore }	Saugor Island	29'741	29.768	0	NNE SE, NE	298	89.7	20, 22		75.0	25 &	26 ,,	86.0	77.4	81.7	-2	
	Midnapore	Midnapore	29.615	29.767	-'008	NE	217:0	103-4	? 21st		69:27	21st				110	TO S	
1	24-Pergunnaha)		acutes a		1					"	GD 2.			88'0	74.3	811	-1	8
1	Howrah	Calcutta	29.758	29.780	+.013	ESE	89	88'5	22nd		74.7	26th		84'7	76.2	80.2	-2	1
	Burdwan	Burdwan	29.692	29.794	+.018	E	101	91.1	20th		75'4	24th		87.1	77.0	82.0	-2	
1	Sankoora	Bankoora	29'453	29.756	+ 004	E	146	90.1	21st		737	26th		84'9	75.4	80-2	-2	
	Beerbhoom}	Raneegunge	20'445	29'782	+ '021	E	101.8	92.0	21st		74.4	25th		86'4	75.9	81'2		
1	Moorshedabad	Berhampore	29.734	29:802	+ 026	В	103	89.6	21st		73'3	24th		12	335		-1	
1	Nudden	Krishnaghur	29.746	29.795	+ .033	South-	189'4	90.8	01 8 00	26 47	73.8	24th		86.2	75.4	81.8	-2	311
Į	Jessore}	Jessore	29.770	29 804	+ '013	easterly.	106	90'7	21st	3/0	75.4		20	127.5			-1	1
1	Khoolns	Chittagong	29-746	29.837	+.015	A VEC		100	,	1		23rd	"	86.6	77.8	82.0	-118	
1	Chittagong Bill Tracts	Demagiri		40 00	1 012	SE	73	87.7		100	73.7	23rd	.19	85.8	77.2	81.2	+01	1
1	Backergunge	Barrisal	29.786	29.798	+.016	SE	64	88°3	vations no		7319	0.042						B
1	Noakholly	Noakholly	29.795	29.839	+ '043	SE	117.2	86'5	00-4		75.8	26th	. "	84'8?	76-7	80'8?	-0.8	
Ì	Furreedpore	Furreedpore	29.787	29.827	+*044		110	880	200	2011	73-9	26th		84.7	75'3	80.0	-1.5	38
Ì	Dacca	Dacca	29.790	29.813	+ '023	ESE	125	89.6	20.2		75.7	24th	"	85°6 87°7	77.6	82'8	-11	dβ
ij	Commillah	Commillah	29.801	29.837	+ '037	SE	72.1	88.9	22nd		72'8	25th		86.2	74.7	80.6	-0.8	Æ
1	Mymensingh	Mymensingh	29-773	29.832	+ 1085	ENE	87	87.2	26th		78'6	24th	"	851	75'4	80.3	-1·8 -2·4	2
1	Bogra	Bogra	20.743	29'807	+ '053	E	72	88.8	20th .	. ;	4'1	23, 24		86'4	76.3	81.4	-10	8
1	0400 Settle / 11-7-11	Serajgunge	29'775	29.822	+ '042	E	57.6	87.1	26th ,	. 7	5.5	24th		85'3	77'2	81'8	-1.0	8
J		leah.	29.738	29.809	+ '046	South- easterly.	87'8	88'8	20 & 21 ,	. 7	5.1	25th	11	86'4	76.7	81.6	-11	
ł		Maidah	29.731	29.814	+.030	SE	81	92.3	21st .	and Note	1550 F	23rd		88'0	77'2	82.6	-1.0	100
ı		Dinagepore	29.721	29.847	+ '029	E	87	87.6	20, 26 ,	M EV		23rd	"	85.2	75.7	80.6	-2'4	'n
l	Inluinorna	15 180 175				700	43	88.8	25 & 26 .		2.7	24th	"	86.9	76.0	81.2	-0.7	25
1	Cooch Behar 3	Julpigoree	29.220	29'842	+ '028	9	265	87.4	23-26	7	11	24, 26	"	84'9	78-2	79'1	-1.2	273
1		Darjeeling	22.995	-	020	Easterly	168	63'6	20, 25 ,,	5	0.6	24, 25	,,	61.9	23.1	57.5	-20	274
	Purneah }	Purneah	29.692	29'820	+*045	B	39	87.2	20, 26 ,	7	3.9	lst		85'8	75.4	80.6	-2.7	71
1	Mozufferpore M	Aozufferpore	29.610	297792	-	ESERE	196	91'8	20th	71	12 5	oth		87:3	77'9	82.6		3
1	Durbhungs I	Ourbhunga	29.646	29.815	+ '038	ESE	154.	91.9	20th ,,	2000 B		4th	"	87.8	76'1	81.0	-16	
lē	500 B	The second of	29.589	29.820	+ '058	ENE	199	93'2	20th ,,	75	8 2	2nd		87.1	75'1	811	-1'6	1
1			29.574	29.769	+.012	E	186-8	92.3	20th ,,	71	2 2	3rd	n	87.7	76'9	82'3	-0.8	1
8	hahabad		29:391	29.749	MODELL CO.	Calm & E	172.8	98'8	21st "	70	5 2	6th		88'4	75.7	82'1	- 0.4	1
	J B		9.566	29'761 29'763	+,015	Variable E	207.6		20th	73 74	223	nd 5th		86.8	76'1	81.2	-1'8	1
0	ya G	ув 2	9.876	29.757	606	В	130	701E39	21st ,,	74	20	& 26	"	88'1	76.7	82.4	-0.8	
P	atna B	ankipore 2	9.296	29 782	+*011	E	208	91.9	21st "	75		00		87.5	76.6	83.2	-1.3	
	outh Bhagulpore } B	hagulpore 2	9.623	29.786	+*030	B	73'1	90.2	21st	74	. 3	th						
		oomka 2	9.290	29.794	+ '038	E	205-0	The last	elet .	1873			"	86.7	76'3	133 12	-1.8	
H	azaritagh H	Commercial	12,170	1,000	'017	ESE	281		in.d	78	G 15		"	85.6			-2.0	J
	ohardugga } R	100			019	E				169.		th	"	81.1	70.6	75.0	-2.2	1
	ј						196.5	83.2	20, 22 ,,	67	4 25	th		79.6	69-3	74'5	-5.4 3	1
Si			S. 188	20,00	008	I NE	67.5	89'4	22nd	71	2 25	th	,,	84.8	74'4	79'6	-20 7	1
	1		1000		+ '072?	NE	[]	90'1 2	5th .,	67	4 23	ed.		86.2	以前提供		-30 7	1
Al				100	+'015	NE	144	86.2 2	6th	78:	3 24	111	,,	82.8	2000		-1.5	1
El .	4811	camr j 20	707 2	9'845	+*025	Calm	13.40	91.2 5	5th .,	67	3 24	th ,		87'5	71.5	79.5	-36	

* Means of six days.

The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the part to a rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the part of the period in question during the p

the week ending Friday, the 26th of September 1890.

	-		1419	10,00		1	DISTI	LICT OB	SERVATIO	Ma.				
1	week.	k at						RAII	NYALL.					
1000	nd am or wee	wee	OF	WEEK.	Sino	e 1st of mon	th.	Sinc	e 15th May	1890,	number days.	number days.	Representative station.	DISTRICT.
S CHICAGOS C	Average cloud at 8 A.M. for	Rainfall of week observing station.	Mean for district.	Normal mean,	Mean for district,	Normal mean,	Variation.	Mean for district.	Normal mean.	Variation.	Average nu of rainy di	Normal number of rainy days.		
	9°S 5°4	11.08 1.65		2.01		9-28			43.23			8.0	Pooree Gopalpore False Point	Pooree
	8.6	5.68	9.06	2.02	15:45	8.48	+6.97	52.72	43'19	+9.23	5.4	8.0	(Cathorit	Cuttack
	7.7	18:39	11-23	2.43	16.50	9.65	+6.22	48'98	45.02	+3.88	6.8	3.1	Balasore	Balasore
L	9'4	9.15	8'55	2.62	11'04	10'84	+0.80	44'991	\$8.03	-7.03	68	8.0	Sauger Island	South-West Midnapore South 24-Pergunnah
k	5'7	5'51	4'94	2.09	6.67	7'46	-0.79	41:41	45'60	-419	1 6.7	2.8	Midnapore	Midnapore
	8.7	1.00	1.60	2.18	3.81	7:86	-4.02	41.09	45'83	-4'74	4'6	3.3	Calcutta	Sta-Pergunnaha
1	9.4	2'47	3.69	1'94	8'24	7.03	+1'21	52.42	41'20	+11.22	5'7	3.72	Burdwan	Burdwan
	7.9	4'50	4.53	1.68	6.45	7'58	-1.08	44.17	47'17	-3:00	5'8	3.0	Dankson	Bankoora
	8.4	4.03	4.00	2.40	5.99	9.04	-3.02	51.21	47.13	+4'08	5.3	8.0	Raneegunge	Reerbhoom
-	91	2.31	3.01	2.23	4.88	9:54	-4'66	247'80	44.26	+3*24	5.0	3.3	Berhampore	Moorshedabad
	8.3	3'40	2.21	2'31	5'14	7.83	-2.69	41.30	43'32	-2.03	4'4	3.1	Krishnaghur	Nuddea
	87	3.79	1.78	2:31	3.79	8.17	-4'38	44.08	46:99	-2.91	4.0	3:3	Jessore	S Jessore
	5.7	1.89		8.32		13:17			102'68			3'8	Chittanona	Chittagone
				3.80		11.04			69'17			3.6	Domesial	Chittagong Hill Tract
	7'4	3.13	2.99	314	5.97	10.69	-4.72	60:16	67:40	-7.24	4'5	3.7	Damianl	Backergunge
1	2.0	5:66	3.68	4'05	10.10	15'51	-5'41	88.12	95.25	-7:40	8.0	3.8	Noakholly	Noakholly
	6.6	2.29	1.77	5.05	3.61	7:97	-4'36	37:41	49.01	-11.60	4.7	31	Furreedpore	Furreedpore
	7:1	0.17	0.97	1'85	8.19	9'24	-6.02	52'35	53:37	-1.02	1.8	3.0	Dacca	Dacca
	3.1	9:23	1.75	2'45	5.08	10.00	-5.01	53.50	60.26	-7:06	3.5	81	Commillah	Tipperah
	5.7	0'79	0.81	3.55	5.62	11.58	-5'06	62'69	60.94	+1.75	1.6	8'4	1	Mymensingh
i	5.0	0.38	0.28	2.81	7:66	8.93	-3.25	42.26	\$6.80	-4 04	3.0	3.3	THE PERSON OF THE	Bogra
	6.6	0.91	2.89	2.53	5'87	9'39	-5'81	54'96	48.05	+6.51	3.8	3.7	The second second	Rajshahye
	3.6	1.72	1.89	3.58	4'25	10.28	-6.03	45'88	48'94	-8.11	2.0	3.4	Rampore Beaule	Maldah
63	5.0	0.85	0.87	2.40	4.23	10-62	-6'09	57:42	51.88	+8'54	1'4	3.8	Dimensions	Dinagepore
á	23	2.74	2.81	8.22	9.75	12'04	-5.30	71'46	67.09	+4'37	8'5	8.6	D	Rungpore
	2.	3.10	4:37	5'59	19.75	19.68	+0.01	134.69	102.59	+32.10	2.6	4*2	Julpigores	Julpigoree
	7'0	1.17	3.58	4'32	16.99	17'24	0.25	145.76	111.75	+34.01	3.3	4:3	Dawieskies	Darjeeling Hill Tract
R	6.6	2.21	3.55	2'94	7.70	11'85	-3.65	67:99	58'32	+14'67	1'4	2.8	Purneah	Purneah
	6.9	0.74	1:38	2:46	2.89	7 82	-4.03	46'49	33.80	+819	3.3	2.0	STEEL PLANTS IN	Moznifernore
1	67	0.33	0.21	1.82	2.95	8.03	-5.08	51.91	89-69	+11.82	2.0	2.3	Doublesses	Durbhunga
15	77	3'86	2.26	2:40	5.89	7.62	-2:23	29.02	41.22	+17'83	2.0	2.2	Watthewil	Champarun
	41	0.25	2.86	1.01	5.68	6-65	-0.97	49'62	86-67	+12'95	3.7	2.0	Chinne	Sarun
1	6.9	1.65											Dehree	/ Qhahahad
	777	4:54 1:96	2:20	1.63	4.19	6.62	-2'43	44'90	35.58	+9'71	4'2	2.8	Buxar Arrah	Shahabad
	6.6	0.58	0.63	1.24	1.47	6.11	-4'64	53-32	37.05	+16.27	3.0	2.0	Ove	Суз
1	9.3	0.72	1.81	1.71	2.84	6.14	-2:30	43.03	36-27	+6.76	3.3	2.0	Bankipore .	Patna
	8.0	0.32	1'16	1.88	2'28	7:25	4.97	46-22	38'59	+7'63	3.8	2'3	Bhagulpore	South Bhagulpore Monghyr
	61	1'76	1 66	2'18	3'53	9.23	-6.00	49'41	45'74	+3'67	4.0	2.8	Doomks .	Sonthal Pergunnahe
	10.0	3.21	8.12	3.09	5'08	8:38	-3.30	44'90	45'38	-0'44	4.6	2.8	Hazaribagh .	Heraribash
	8.2	2:65	2°15 2°45	2.04	4'40 4'24	8.99 7.14	-4·15 -2·00	43 38 37 38	43°06 42°28	-4.80 -0.98	4·8 5′0	2·8 2·6	} Ranchi	
	9.0	1.68	1.00	1.89	5.26	7:86	-2.00	1 30 59	46:57	-15.08	6.0	3.3	Chyebassa	. Singbhoom
	6°0 5'4	5.76						The same					Sibsagar 'Dhubri	Assam
dE	1	1.77	3216	SAURIE	1	STATE OF	Para Ch	and the same	And the		N. Sulla	THE STATE	Silchar	

Years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater, sing cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall at the subdivisional lears. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of September 1890

	District.			-	27 233 8	AINFAL				_	TAL		Average		1
Meteorological division.	District.	Station.	Saturday, 20th September.	Sunday, 21st September.	Monday, 22nd September.	Tuesday, 23rd September.	Wednesday, 24th Septem- ber.	Thursday, 25th September.	Friday, 26th September.	Number of rainy days.	Rainfall of week.	Total rain- fall since 1st of month.	total rain- fall from 1st of month.	Total rain- fall since 15th May 1890.	Average rainfa from 11 May 1 date,
Orisea	Pooree	Pooree Khurdah Banpur False Point Gop Satpara Pipli	0.53 0.07 0.05 0.12 0.19 0.75 0.13	0°13 0°21 0°13 0°58 0°15	0.09 0.10 1.22 1.46 0.12 0.70 0.57	0°68 0°68 0°68 0°49 8°30 0°56 2°56	6°18 1°75 1°40 8°19 8°50	4·26 1·54 0·78 2·65 2·11	0.22	6 7 7	11.96 4.92 9.63	15.48 13.23 13.11	9'32 9'47 8'27 10'05 P	54'97 56'22 49'10	392 403 304 492
	Cuttack	Jagatsingpore Banki Cuttack Kendrapara Jajpore Dharmsala Salipore	0.65 0.60 0.32	0.30	0°70 2°58 1°40 0°08 0°90 2°90 1°47	1.00 0.74 2.10 0.35 1.70 2.75 2.60	4.26 2.20 8.60 4.05 1.50 1.00 1.72	1:60 1:12 4:53 1:72 2:59 1:35 1:63	0.60 0.48 2.40 1.44 0.75	7 5 5 5 5	9.85 ; 7.12 14.03 7.64 7.44	144'33 15 06 20'89 14'25 13'68	7'67 8'21 9'54 8'19 8'81	49 62 54 34 71 53 43 05 45 04	57 g 40 g 45 m 45 m
	Balasore	Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah	0.12	0°78 0°03 0°15 0°15 1°13	0°10 0°50 1°40 1°34 2°10 0°56	0°32 0°60 3°50 2°48 1°50 2°05	2:45 1:90 1:55 3:54 4:70 7:72	3 10 1 70 2 30 4 82 3 57 1 56	0°50 0°14 0°15 4°19 3°20 1°00	7 5 6 6 6 7	7·35 4·84 8·93 16·67 14·59 15·00	12:39 13:84 14:07 20:36 19:01 17:54	9:38 9:41 9:56 16:19 9:62 9:70	41.76 45.40 48.74 54.17 51.22 52.11	42 G 44 G 42 G 45 G 45 G 47 G
SOUTH-WEST SENGAL.	Midnapore	Contai Saugor Island Tumlook Midnapore Ghattal Kukrahaty Garbetta	0°03 0°40 0°10 0°41 0°41	0°19 0°30 0°10 0°32 0°06 0°43	1°28 0°10 0°10 0°40 1°04 0°41	1'19 1'57 0'30 0'52 1 31 1'14 0'44	2°30 2°90 1°80 1°66 1°10 2°26 1°48	2'41 0'83 0'70 1'00 0'35 1'04 0'07	3°13 5°45 2°10 0°81 0°80 0 40 1°82	7 6 7 7 6 7 5	10.53 9.15 5.50 4.31 5.61 5.72 3.74	13:09 11:28 7:40 6:28 6:32 7:68 4:48	10°10 10°63 8°02 6°49 7°87	42.65 44.61 46.00 40.85 89.00 34.01 38.11	50'81 54'73 40'93 42'73 40'73
	24-Pergunnahs	Diamond Har- bour Canning Town Alipore Jail Barrackpore Dum-Dum Barsset Buseerhat	0°02	0°12 0°10 0°03	1°22 0°74 0°60 0°48 0°12	0°72 0°34 0°57 0°52 0°98 0°22	1'32 0'45 0'10 0'12 0'16 0'26	0°06 0°01 0°05	2:54 0:75 0:18 0:26 0:70 1:19	6 6 3 3 5 5	5'98 2'47 0'90 1'17 1'36 1'78	8:88 5:20 4:34 1:90 5:05 5:43 4:60	10°01 P 9°14 6°92 8°34 8°40 7°89	46'86 50'68 44'15 35'36 36'99 39'41 47'07	50°90 9 40°00 40°9 45°7 45°8 48°8
	Howrah	Howrah Mohesreka		0°10 0°13	0:46 0:11	0.35	0.08	0.02	0°03 1°67	5 6	1'88	2°70 4°16	7'87 7'85	37'03 48'44	40% 40% 40%
	Hoeghly	(Ooloberiah) Serampore Hooghly Jehanabad	0.30		0.71 0.88	0.89	0.09	0.08	0.00	6	1'91 2'46	3·23 5·09	7:25 6:68	38°56 38°45	44°B 42°B
	Burdwan	Cuina Eurdwan Cutwa Raneegunge Mankur	0.10 0.08 0.05	0.13	0°03 0°43 1°12 1°90 1°08 0°07	0°24 0°40 0°87 2°13 1°50	0°21 0°50 0°34 0°04 0°53 0°38	0.01 0.10 1.30 0.02 0.11	0.42 0.63 0.31 5.20 0.55 0.05	5 4 7 6 6 5	0'59 1'86 2'47 6'94 4'03 2'11	7'21 7'95 9'54 5'91 2'96	8°28 6°28 7°18 7°69 6°74	45°87 46°44 58°42 52°37 49°49 42°49	50 m 62 m 62 m 64 m 64 m
	Bankoora	Bankoora Bishenpore Maliara Khatra Indas Kotalpore Anda Gangajalghati Raipore Sonamukhi	0'23	0°85	1'51 0'31 0'20 0'12 0'06 0'05 	1'28 0'19 3'37 1'10 0'85 0'38 1'00 2'98 0'82 3'28	1°22 1°89 0°23 0°85 0°41 1°00 2°05 1°69 1°85 0°72	0°08 0°24 0°22 0°56 0°45 0°12 1°00	0°40 1°69 0°11 0°51 0°64 0°73 0°80 0°72 0°12 0°52	5 5 5 5 5 6 6 6	4'49 5'17 4'13 3'14 1'81 2'28 5'66 5'62 3'87 5'46	8:53 6:38 5:46 5:45 3:05 3:88 8:54 8:56 5:86 6:43	7:17 8:38 6:13 8:47 9 9	50°25 42°77 51°14 32°45 50°39 57°51 43°27 57°95 43°86 45°68	60 60 60 60 60 60 60 60 60 60 60 60 60 6
	Beerbhoom	Bh. Soory Hetampore Rempore Haut Bolpore Murarai		0.80	0.05 2.42 1.28 2.35	1'19 2'00 1'15 2'32	1'68 0'84 0'33 0'46 1'10	0.09 0.18 0.20	0°24 0°32 0°69 0°29 1°60	5 5 5 4 4	3°25 3°64 5°09 4°35 5°50	4°01 7°68 6°39 6°17 6°15	9.61 9.55 10.26	51°02 46°62 57°78 48°12 48°50	61 61 61
	Nuddea	Ranaghat Kishnaghur Chooadanga Meherpore Kooshtea	30.0	0.25	0°18 0°40	0°17 2°46 0°65 2°46 1°85	0.42 0.69 0.28 0.08	0.15 0.88 0.00	0°24 0°14 0°07 0°67 0°14	5 3 6 4 5	1.02 3.29 1.17 4.53 2.56	5'96 6'78 2'35 5'08 5'54	6'65 7'39 8'82 7'23 9'08	42:90 48:44 33:08 41:63 40:49	20202
	Khoolna	Satkhira Bagirhat Khoolna Nakipur Rampal	0.01	0.48 0.48 0.48	0.60	0°16 0°13 1°05 0°68 0°43	0°69 1°72 0°87 0°67 2°83	0°09 0°60 0°34 0°51	0°45 0°38 0°21 2°48 1°02	7 4 4 5 5	1'45 2'83 2'23 4'65 5'27	4.13 4.99 4.41 7.84 7.51	7'89 9'22 8'93 P	47'40 55'49 44'44 58'71 53'47	200
	Jessore	Narail Jessore Jhenidah Magoorah Bongong			0.09 0.60 1.55 0.05 0.20	0°33 2°30 0°26 0°17	0°07 0°18	0.03	0°13 0°71 0°09	5 4 3 2 3	0.65 3.79 1.90 0.22 1.00	1'04 4'62 3'97 1'67 4'81	6'74 7'96 8'41 7'65 8'48	38*65 48*26 45*05 37*44 35*11	46666
	Moorshedaba	Berhampore Lalbagh Azimgunge Jungipore Lalgola Jiagunge Akhrigunj Patkabari		0.03	2'40 0'69 1'69 0'70 0'55 0'62	1'05 0'60 0'05 0'05 1'25 0'21 0'15 0'90 0'20	1°05 0°52 0°68 0°56 0°45	0°17 0°13 0°45 0°65 0°50 0°42 0°89 0°50	0°52 0°34 0°23 0°60 0°30 0°50	5 6 5 4 5 5	5°19 2°31 3°09 3°20 2°12 2°14 2°07 4°70	5*60 3*54 4*80 6*25 3*71 5*38	8'87 9'74 10'04 8'98 9'99 9'67 P	52°91 46°63 51°22 47°74 89°05 50°00 48°49	はなるないのの
BAST BENGAL	Chittagong	Cox's Bazar Chittagong Kutubdia Satkanya	0:44	0.67 0.22	0.18	0°23 0°55	0°35 0°20 0°26			3	0.71	11.05	.14'19 12'22 ?	123.03	197
	Unitingong Hill Tracts	Rangmati Ruma	0.23		P31	0.06			0.30	4	2.20	7:65	11.11	65109	2
	Backergunge	Patnakhally Perozepore Burrisal Bhola			0.60 0.22 0.19 0.58	0.20 0.12 1.60 0.22	2:50 1:12 0:70 0:00	0°25 0°45	0°35 0°10 0°93 0°20	5 0 4	4°20 2°07 3°41 2°25	8°03 4°36 6°83 4°21	12'11 9'99 10'35 10'29	69°30 54°93 58°00 57°88	H. W. Serie

atement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of September 1890 -contd.

					R	AINFAL			Y S	To	TAL		Arone		Awar
cological	District.	Station.	September.	Sunday, 21st September.	Monday, 22nd September,	Tuesday 23rd September.	Wednesday, 24th September.	Thursday, 25th September.	Friday, 26th September.	Number of rainy days.	Rainfall of week,	Total rainfall since 1st of month.	Average total rain- fall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15t May to date.
BENGAL		Gournaddi Bauphal	0.32			2.65 2.00	0.26 2.40		0.25	4 2	3.78 4.40	4.20 8.62	9	37°17 64°32	P
	Noakholly	Noakholly Fenny Harishpore Ramganj	0.05 1.20 1.20	3°73		1°24 0°25 0°40	0.20			4 2 2	5.57 1.75 0.70	3°20 3°20	16:47 14:53 P	80°71 95°52 59°71	96'4 94'4 ?
	Furreedpore	Madaripore Furreedpore Goslundo	0.70	0.17	0.25 0.50	0.06	0.12 0.13	0°32 0°75 0°51	0.28 0.02 0.28	8 7 4	5.00 5.10 1.50	1.85 3.79 5.17	7'89 8'64 7'37	32°97 41°82 37'41	49°7 51°1 46°1
	Daces	Munshigunge Dacca Naraingunge Manickgunge Joydebpore	0.10	0.20	0.15	0.60 0.21 0.54 1.35 0.28	0°45 0°21		0.22	9 1 1 3 5	1'10 0'21 0'54 2'02 0'72	3°18 1°84 1°81 5°90 6°57	9°21 9°82 7°14 P	53°36 48°38 57°27 51°51 58°46	61:4 52:7 54:9 44:0
	Hill Tipperah Tipperah	Agartola Comilla Chandpore Brahmunberia Ramchandra-	0.08		0°07 0°20 0°60	1'86 0'96 0'80	0.45	0.70	0°10 0°20	4 4 4 1	2:40 2:34 1:67 0:60	7.87 4.57 3.92 4.12	9.44 9.75 10.47 10.71	55.78 58.76 51.06 48.47	58°3 68°0 66°3 54°0
		pore Nasirnagar Daudkandi Kasba Laksham	0°14 0°40 0°50		0.9	0.74		0.56		3	1'94 1'51 Nil	2.75 1.98	P P P	67°45 25°08 63°68	3. 3. 3. 3. 3.
ORTH ENGAL.	Mymensingh	Kishoregunge Atia (Tangail) Mymensingh Jamslpore Netrokona Subornakhally Durgapore Sherepore Town	0°06 0°40 0°99 1°40 1°81 0°69	0°25	0°05 0°17 1°10 0°37	0.52	0.48			3 2 1 2 4	1°01 Nil 0°65 0°99 1°39 3°20 1°18	6°95 1°23 6°97 4°73 8°20 7°31	11.55 8.69 12.25 12.13 11.84 9	61'74 43'22 66'23 59'50 83'22 41'48 50'10	61° 48° 65° 57° 71° 9
	Pubna	Pubna Serajgunge	0.13		1.04	0°68 0°79	0'46	1'54	0'14	5 2	3.86 3.80	5°59 6°48	9.86 8.81	38'41 46'03	47° 46°
	Bogra	Sherepore Nowkhilia Bogra Panchbibi	0.03	0.07	0.38 0.28	0°27 0°13 0°03 0°05		0.524	0'12	3 3 3 3	0°61 0°27 0°44 1°03	8'09 5'26 5'13 4'12	9°16 7°77 9°30 9°59	57*59 50*00 53*87 54*07	51° 46° 54° 40°
	Rajshshyo	Besulcah Nattore Naogaon Lalpore Manda		0.65 0.20	0.88 0.03 0.03	0'46 1'08 0'43 0'52 0'10	0.01 1.80 0.42	0.03	0.03 0.54 1.70	4 3 3 6 2	1.66 2.91 1.11 2.21 1.80	4*54 7*69 8*77 5*13 2*70	10°29 10°49 12°28 P	54'63 64'16 46'44 37'57 31'22	46° 48° 49° 2
	Maldah	Maldah Chanchal Gajol Sibganj			0°20 0°90 0°11	1'35 1'42 1'30	0.45	0°04 0°02	===	3 1 2 4	1'84 0'20 2'32 1'48	4'67 3'82 7'05 2'25	10°61 9°96 9	47:99 43:64 62:97 43:91	45° 52° ?
	Dinagepore	Mohadebpore Churamon Raigunge Dinagepore Raloorghat		0'40	0°30 0°84 0°70 0°45 1°64	0'04				1 1 3 1	0°30 0°84 0°70 0°89 1°64	1'42 6'10 3'55 4'21 7'40	9:63 12:27 10:24 10:39 10:67	42'83 60'16 66'78 62'23 55'15	51 40° 53° 57° 46°
	Rungpore	Thakoorgaon Bnawanikuugo (Gyabanda) Rungpore Kurigram Bagdogra (Nilphamari).	0°12 0 59 1 51	0°77 2°25 1°64 0°20	1.65 0.15 0.08	0°18 0°10 0°15				3 4 4 3	0'77 4'02 2'51 1'84 2'85	9°17 7°62 8°38 12°33 10°64	10°35 12'94 10'37	80'48 68'30 61'43 71'28 84'70	55° 67' 66'
	Julpigores	Ulipare Julpikoree Alipare Dooar Fallacotta Debiganj	2°40 4°62 2°21 0°84	0°62 0°48 6°20 0°43 -8°72	0.02					3 2 2 3	3'02 4'82 2'64 5'06	17°18 26°93 18°70 12°66	22°20	133*88 170*06 126*71 95*26	109 S
	Cooch Behar.	Bhagatpore (Nagrakatta) Dinhasta Cooch Behar Mickilgunge	2:10 2:02 3:27 4:75 3:30	0.04 0.88 0.68 0.41 2.85	1.33 0.49 0.51					3 2 3 3 5	3°47 2°85 8°95 5°65 6°86	34'89 19'87 25'63 14'59 21'45	9 17'23 21'19 19'06 18'72 28'17	164-44 195-47 152-65 128-03 152-91 187-72	87-9 110-9 100-0 104-7 177-1
	Darjeeling Hill.	Matabhanga Buxa Silliguri Darjeelins Kalimpong Kurseong	1'15 2'34 0'18 2'52 0'60	0°93 2°88 0°32 0°36 2°40	1°21 0°28 0°63 0°08 0°52	0.10				8 4 8 4	3°29 5°50 1°17 3°16 3°62	25°30 25°68 7°29 9°65 14°43	14:36 16:67 9:77	180°01 130°00 104°96 171°05	99'13 78'61
TR BEHAR	Purneah	Kissengunge Arrareah Purneah Gundwara Balarampore		4'78 4'48 2'10 1'30 1'20	0.33				1'80	1 2 2 2 1	4.78 4.81 2.21 2.60 1.20	8°51 11°32 13°63 4°96	13:40 12:55 13:20 1	84:36 72:04 75:41 78:20	65°65 58°36 56°19 7
	North Bhagul- por	Mattari Kaliaganj Maddapore Soopool Protabganj	2.82	8.20 1.30 3.11*	1.00					3 1 1 1	5°50 1°20 3°11 2°85	20°25 1°20 3°86 4°65	9'02 8'42 P	106'71 61'21 66'21 48'39 45'25	43°36 43°25 1 38°85
	Durbhunga	Tajpore Durbnunga Madhuban) Bahera		0.61	0°30 0°12 0°95	0.03		0.03	0.54	5 2 1 1 4	9.77 0.13 0.61 10.23	2.73 0.62 1.61 0.67 4.87	7:24 8:16 8:60 1	51°79 57°86 44°88 45°33	40'63 40'10 1 P 38'69
	Mozufferpore	Roshero Sitamarhi Mozufierpore Hajipore Pars Mahus Siuhar Pupri		1.02 0.10 12.64 0.47 1.70	1.82 0.43 0.60 0.10 1.10	6'62		0.04	0°08 0°08 0°09 2°08 1°20 0°20	3 3 4 2 2 2 2 2	2°30 0°50 1°35 • 5°32 1°67 2°00 1°10	3'13 1'34 4'23 7'36 3'23 4'75 1'59	8°37 9°04 6°04 ? ? ?	46*18 49*95 43*35 58*24 42*26 43*68 45*69	40'19 35'14

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of September 1890-cone

					R	AINFAL		100		Тот	AL	Yeigh Wil			
Meteorological Division.	District.	Station.	Saturday, 20th September.	Sunday, 21st September.	Monday, 22nd September,	Tuesday, 23rd September,	Wednesday, 24th Sept.	Thursday, 25th September.	Friday, 26th September.	Number of rainy days.	Rainfall of week.	Total rainfall since lst of month.	Average total rain- fall from 1st of month.	Total rainfall since 15th May 1890.	Avera raining from 1 May date
NORTH BEHAR —concluded.	Chumparun	Motihari Bettiah Bagaha Burhurwa		2.97 0.46 8.30 1.05	0°69 0°40 0°45 0°88				010	2 2 2 3	3.66 0.86 8.57 1.53	5'54 5'21 18'19 5'11	7-79 7-45 9	60°48 57°58 85°69 52°17	as es
	Sarun	Gopalgunge Sewan	******	1°35 0°87	0.28	*	0.10	0.12	0°45 2°20	2 5	1.80 3.88	8:87 9:76	6:47 7:34	47'48 57'18	3
OUTH BRHAR	Shahabad	Chuprah Buxar Dehree Bhabooah Sasseram Arrah Mohaniah		0.19	0°23 2°73 1°05 1°10 0°82	0°29 0°31 0°45 0°47 1°63	0.09 0.15 0.10 0.20 0.21	0°30 0°07 0°20 0°40	2°39 0°19 0°70 0°22 0°27 2°00	4 3 4 6 5 3 4	2°90 8°17 1°65 2°76 1°79 2°09 4°40	3 41 5 16 2 41 5 11 2 81 5 44 5 60	6 13 6 59 7 56 6 31 6 49 6 17	44'19 47'87 89'91 38'00 39'40 60'19 35'07	2000000
	Gya	Aurongabad Gya Nowadah Jehanabad Arwal Daudnagar Sherrghati Rajauli PakriBarawan			0.25	0°18 0°21 0°40 0°30 0°60	0°41 0°08 0°38 0°38 1°20	0°30	0°20 0°02 0°45 0°04 0°30 0°20 0°12 0°14	4 5 5 9 9 5 5 3	1'04 0'26 0'96 0'25 0'70 1'80 1'10 0'40 0'44	2:56 0:79 1:61 0:92 1:10 2:70 1:65 0:88 1:34	6'61 6'65 6'06 5'09 ? ?	56°51, 54°47 52°22 49°28 49°93 27°65 32°78 42°20 48°92	28 30 30 30
	Patns	Patna Bunapore Behac Barrh Bickram Hilsa		0.80	0°18 2°40 	0°29 0°23 0°47 0°29	0.20	0°15 0°35 0°98 0°10	0°10 0°28 0°55 0°05 0°23	4 4 3 2 2 4	0.72 3.84 1.76 1.40 0.52 1.08	2:07 6:54 3:91 2:80 1:56 3:89	6°30 5°95 5°94 6°39 ?	46°13 47°16 41°77 37°00 52°90 45°81	36 37 37
	Monghyr	Begooserai Monghyr Jamui Gogri Sheikpura			0°56 0°16 1°40	0.05 1.60 0.87	0.13	0°50 0°24 0°16	0°10 0°03 0°19	4 4 4 1 2	1.21 2.03 1.88 0.87 0.55	2.68 3.53 2.76 2.25 0.73	6.68 8.11 6.83 5.17	58-81 49-21 55-89 66-76 42-39	35 41 39
	South Bhagul- pore.	Bhagulpore Banka Kalgang Bangaon	*****	0'50	0°04 0°02 0°42	0.51	0.10	0.00	0.03 0.05	3 4 4	0.33 0.33 0.33	1°18 1°33 3°29	7-29 7-33 P	50°81 36°31 51°69	33
	Sonthal Pergunnahs.	Rajmehal Godda Pakour Nya Doomka Deoghur Jamtara Mohagama Nansaat			1.29 0.07 0.07 0.06	0°46 0°78 1°05 0°94 0°34 0°45	0°08 0°52 0°29 0°47 1°76 0°25 0°84	0°10 0°05 0°35 0°17 0°48 0°75 0°12	0°03 0°29 0°24 0°09 0°85 1°07	2 4 4 5 5 5 5 5	0°56 0°94 3°21 1°76 1°60 3°11 1°22 2°05	2:97 1:40 5:33 4:72 2:59 4:19 1:42 2:25	11:31 8:92 12:24 9:82 8:00 6:93 9	40°63 42°84 56°59 59°68 42°49 54°27 43°74 25°00	47 30 48 44 48
BUTTA NAG-	Hazaribagh	Pacnamba (Giridi).				0.81	1.49	0.43	0.00	4	3.13	5:11	8:32	50.64	6
		Hazaribagh Semtagurah Mahudi Hilis'			1'10	0:97 0:29	0.48 0.80	0:37 0:20	0°29 0'85	5	3.51 3.51	5°25 5°12	7.81 7.58 7.83	45'11 36'11	425 475
	en wen en en en	Jhoomra Hills Barhi Chatra Karagdeha Kamghar			1'90	0.05 0.00 0.00 0.00	0'40 0'55 0'17 0'47	0.20 0.13 0.06 0.50 0.80	0°60 0°80 0°07 0°28	5 4 3 4 2	4'30 2'08 0'30 0'97 2'86	7.70 8:29 1:97 1:92 4:06	10:36	52'60 -45'84 -43'44 -50'29 -42'78	44° 25°
	Lohardugga	Lohardugga Ranchi Palamow Silli Balumat			0°16 0°93 1°50	0°38 1°56 0°58 2°60	0.63 1.12 0.03	6°20 0°38 0°03 0°70	0.40 0.02 0.60	3 5 5 4	1°20 3°65 1°61 5°40	8:38 7:09 2:81 7:80	9°84 8°44 7°38 †	48.88 88.76 42.55 88.10	461 611 281
		Hosseinabad Garwah		0.96	1.35	2.74			0.74	8	4.83	4.83		86:74	
	Singbhoom	Chyebassa Chakradhar- pore. Ghatsilla	0.05		16:0	0'42	0.03	0.68	0.04	6	1. 99	5.26	7:56 ?	30'59	45
	Wanth	Baharagura		1.12	0.82 1.12	2°10 0°75	1:10	0°20 1°42	0.08	6	6°24 5°98	8.73 7.44	3	45°68 46°74	
	Manbhoom	Purulia Gobindpore Kaghunath- pore.	·····		0.08	1.28 0.28 2.20	0.89 0.89	0.12 0.12	1.00 0.00 0.00	5 5 8	2°39 2°50 4°35	4.89 5.67 7.70	7·28 7·00 ?	40°49 34°84 58°22	20
	S S V IIV V S	Barrabhoom Jhaldo Chas	*****	0.08	0°18 1°52 0°05	1.66 2.38 1.20	0.80 1.90 0.70	0.08 0.19 0.14	0.30 0.18 1.00	6 5 5	3°10 6°17 3°39	5°13 8°13 5°07	9 9	41°40 55°51 44°53	

Explanation.indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the return for any day has not been received, the corresponding space is left blank. If any of the return for any day has not been received, the corresponding space is left blank. If any of the return for any day has not been received, the corresponding space is left blank. If any of the return for any day has not been received, the corresponding space is left blank.

CALCUTTA, the 30th September 1899.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 26TH OF SEPTEMBER 1890.

Weather conditions during the past week have been controlled by the depression which beginning to form on the second day of the week, moved slowly across the Circars Coast into Central India towards the end of the week. Though the influence of the depression has extended over almost the whole of India, still in the neighbourhood of the centre, when forming off the coast of the Circars between Gopalpur and Vizagapatam, weather was never seriously disturbed, wind velocity being very little above the average and squalls generally light. This was probably due to the depression being diffused and even from the first, covering a large area including the western half of the Bay and the land as far as the North-

Western Provinces.

At the commencement of the week the pressure distribution was recovering from a shallow depression which had existed off the coast of the Circars for some days, but a trough of low pressure still remained, extending in a north-westerly direction as far as the Himalayas. This began to deepen on the 21st, and wind circulation again became cyclonic in the northwest corner of the Bay. On the 22nd there was a considerable intensification, as pressure fell briskly between Vizagapatam and Masulipatam, and rose briskly to rapidly in Central India and the northern districts. Defect was 128 inch at Vizagapatam, and under a tenth of an inch at all other stations, but as there had been a rather large rise in the east of Assam the difference between pressure there and in the Circars was 3 inch, which resulted in a regularly defined indraught over the whole of Bengal. During these two days rain had been falling in North and East Bengal, and had been scanty in the western districts, but after the 22nd it almost stopped in the former districts and became general elsewhere, especially in Orissa where some heavy falls were received. On the 23rd pressure rose everywhere rapidly in the east of Bengal and briskly elsewhere, except in Orissa and the Circars, where changes were about '03 inch only. On the east of the depression, therefore, gradients again increased, and the area of lowest pressure was just on the point of crossing the coast. Fairly heavy general rain was falling in Lower Bengal and Orissa, but wind velocity increased very slightly, and easterly directions prevailed over the whole province. On the 24th the barometer continued rising in Bengal, and the depression was moving in a north-westerly direction into Central India, while rainfall in the north-west corner of the Bay had become heavier, and wind velocity was generally above the average. Up till the end of the week these conditions remained unchanged, as the depression moved slowly and kept, relatively to Bengal, almost the same position, but on the last day it began to recurve and take a northerly or north-easterly direction so as to bring the western districts of Bengal more within its influence.

Pressure changes have been rather large on several days of the week; but as the depression was chiefly due to differences of increasing pressure, means are nearly everywhere above the normal, the difference varying from '075 inch below the normal at Gopalpur

to about '05 inch above in Assam, East and North Bengal and North Behar.

Temperature has been everywhere below the normal, defect in the weekly mean for Orissa and Chutia Nagpur being 2.5°, in South-West Bengal 2°, South Behar 1.4° and in the other districts about 1°. At the beginning of the week there was defect of between 3° and 5° in North Bengal and Assam, but elsewhere the difference from the normal was about 1°, except in the west of Behar where there was considerable excess. A rather rapid fall

commenced in North Bengal and gradually extended over the province till the 24th, when there was defect over the whole province generally between 3° and 5°.

Rainfall has been very heavy in Orissa, moderately heavy in South-West Bengal and Chutia Nagpur and below the average elsewhere, slightly in Behar and considerably in East and North Bengal. The average excess fall in Orissa is 7.42 inches, in South-West Bengal '9 inch, Chutia Nagpur '75 inch; while defect varies from '2 inch in Behar to 1:34 inches in North Bengal. At the beginning of the week only very scattered showers were falling in Lower Bengal and Behar, but after the formation of the depression on the 21st, general rain fell in Orissa and South-West Bengal till the end of the week, while in East Bengal, Chutia Nagpur, Behar and the southern districts of North Bengal showers were much more frequent, but in the north of North Bengal rainfall almost entirely ceased. The heaviest falls in Orissa were—Balasore 16:67, Cuttack and Jellasore over 14, and Pooree about 12 inches. In the Midnapore district falls were between 5 and 10 inches, and in Bankoora and Beerbhoom they were frequently over 5 inches, but elsewhere the falls at the various stations were very irregular owing to the local character of the showers.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 26th of September 1890:—

Chila Cara State S	1		TEMP	ERATU	RE.		15	200		R	AINPA	LL		ALE S	75.56	
	week.	week,	Avera	ges for	week.	above or week.		Of wee	ok.	R	ainy da	ıys.	Sinc of m	e 1st onth.		15th 1890.
METEOROLOGICAL DIVISIONS.	Highest observed during week	Lowest observed during week,	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week s below normal mean of w	Average.	Normal average.	Variation.	Average number in week,	Normal average num- ber in week,	Variation.	Averege.	Normal average.	Average.	Normal average,
Drissa	90'9	72 8	84'8	77.0	80.0	-2·5	9.60	2.18	+7'42	6.0	3.0	+3.0	15.48	9'16	50.35	43.61
South-West Bengal	103.49	69-29	86:4	761	813	-2.0	3.15	2.25	+0.90	5.0	3.5	+1.8	5'45	8.28	44.67	45'88
East Bengal	89'6	72'8	85.7	76'4	81'1	-11	1:90	2.81	-0.91	3.3	8.2	0.5	5:99	10.77	63.46	65.85
Lauth Donas I	92:3	71:1	86'2	76'0	81.1	-11	2:09	3:43	-1:34	2.7	3 6	-0.9	8.75	12:31	72 09	63:03
Louth Dobon	93.5	72-2	87:1	76'3	81.7	-17	2.18	2.39	-0.51	2.4	2.8	+.01	5.00	8.72	56:32	43:25
auch Danes	93'4	70.2	87'5	76'3	81*9	-1'4	1.59	1'82	-0.53	3.7	5.5	+1'5	311	7:31	47.40	39.03
hutia Nagpur	85.9*	67.4*	80.4*	70.0*	75'2"	-2.5*	2.70	1.95	+0.75	4.6	2.8	+18	4'91	8.13	41.75	44.2

^{*} Chyebasas not included.

Meteorological Office, Bengal; The 30th September 1890. C. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 21st to 27th September 1890.

	7.75tt - 17		.M.	and the second		ТЕМРЕ	RATURE.			Н	YGROMETRY		ours
MONTH.	Date,		Pressure at 10 A.M. corrected and reduced to \$2° Fahr.	Daily mean.	Maximum,	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 a.m.	Dew point at 10 a.M.	Humidity at 10	Rainfall past 24 hours.
September	21st 22nd 23rd 24th 25th 26th 27th	111111	Inches. 29:677 -734 -836 -887 -812 -737 -729	84·5 81·7 80·1 78·9 78·9 79·5 81·6	90·2 85·4 83·9 81·9 81·9 83·9 85·9	11-5 7-4 7-6 6-1 6-1 8-9 8-7	78·7 78·0 76·3 75·8 75·8 75·0 77·2	87.5 85.8 80.6 78.1 81.1 75.8 83.1	82:0 79:5 78:0 76:0 78:0 74:5 79:5	1-620 924 926 -871 -919 -838 -961	79:8 76:8 76:9 75:1 76:7 73:9 78:0	78 75 89 91 87 94 85	0.00 0.30 0.80 0.11 0.00 1.00 3.00

		Market Harry		Inches,	
The mean 10 A.M. pressure of the seven days		***		29.773	
The mean temperature of the seven days		***		80.7	
The extreme variation of temperature			•••	15.2	
The maximum temperature				90·0 % 86	
The mean 10 A.M. relative humidity of the seven of	days	1	•••	86 Inches.	
	r 1890		Mile	5.48	

The total fall of rain from 21st to 27th September 1890 ... 5.48

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Gort. of India.

METEOROLOGICAL OFFICE, INDIA; The 29th September 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 13th September 1890.

BIRTHS

This births registered during the week ending with Saturday, the 13th September 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 22 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 9 lower than the average rate of the corresponding week of the past five years, and is higher than the rate of the corresponding week of any of the past five years except 1885 and 1889—vide the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five-years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	26'6	21'1	19.6	21-9	25'7	22.9	28'0

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

	WREES ENDI	NG-		WEEKS E	INDING-
Towns.	L Augu	oth Sept. 1890.	Towns.	28rd Angust 1890. 30th August 1890.	6th Sept. 1896.
Burdwan	18°6 17°0 17 14°8 28°5 36 13°7 31'4 38 37°7 9°4 37 21°8 17°2 18 21°1 14°0 10 18°0 11°4 34 12°0	3'4 \$3'6 7'0 9'3 7'4 39'4 9'3 31'4 7'7 37'7 3'2 21'8 9'5 17'5 4'1 26'5 5'0 25'2 1'8 25'2 1'2 39'4 9'6 37'0 1'7 14'9	Narainganj Chittacong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Blagulpore Wonshyr Purneah Poori	16'6 12'4 9'4 47 19'3 34'7 15'3 10'1 31'4 26'0 41'9 16'7 18'9 97 18'9 37'9 18'1 4'0 24'4 25'3 37'1 28'9 10'4 12'6 4'2	29°0 20°7 9°4 9°4 17°2 15°3 30°1 26°0 79°0 16°7 25°5 7°3 22°0 22°8 25°2 28°2 30°8 30°8 46°2 38°3 10°5 14°7

It will be seen that last week the highest birth-rate was returned from Hughli and Chinsurah (39.4), and the lowest from Mozufferpore (7.3). No births were registered during the week in Ranaghat town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 24.7 per 1,000 of the population. The rate of the week is 6 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—vide the figures below—

	1885.	1886.	1887.	1889.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	40'4	28.0	25'1	25'7	31.5	30.7	24.7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

	WE	EKS ENDING-				WEEKS .	ENDING-	
Towns,	August	30th August 1890. 6th Sept. 1890.	13th Sept. 1890.	Towns.	23rd August 1896.	30th August 1896.	cth 8-pt, 1890.	13th Sept. 1896.
Burdwan Midnapore Hughli and Chinsurah Berampore Uterpara Howrah Sali Sali Sansarar Sansarar Sansarbat Sanipore Besore Besore Besore Bempere Beauleah Daoca	23°2 19°7 49°1 318°9 217°8 17°8 15°1 28°1 315°1 29°9 120°3 55°1 128°3 55°1 128°3 55°1 28°3 4	4'4 16'8 9'3 17'0 8'1 18'1 5'4 43'2 8'5 28'3 9'5 10'9 1'6 14'0 9'5 11'4 2'0 12'9 8'8 15'8 8'4 36'7 1'8 18'4 4'5 59'3 0'1 13'0	29'0 29'1 37'7 53'0 28'3 18'7 10'5 22'7 6'0 19'3 42'8 39'4 14'8 28'5	Naraingauj Chittacoug Comillah Patna City Gya Arrah Mozufferpore Dusbhanga Chupra Bingulpore Monghye Pursuan Poori Total	24'8 16'4 26'9 20'4 06'3 12'0 25'6 14'9 16'1 12'6 24'2 42'0	12'4 9'4 11'6 10'2 58'7 6'4 19'5 44'8 11'1 19'0 91'7 20'8 23'9	16'6 18'8 12'8 26'8 55'1 20'3 80'5 23'5 23'5 27'1 10'4 48'3	1676 976 2976 2074 4073 1576 2278 3972 1871 2177 1379 3175

It will be seen that last week the highest mortality occurred in the town of Serampore (53.) and the lowest in Ranaghat (6').

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows :-

	Cholera.	Н			Fever.			Oth	er causes.	
		В	tatio pe				o per			Ratio per mille.
Chupra Mozufferpore Patna City Gya Durbhanga	::: ::: :::		30·2 8·5 5·5 3·4 3·1 2·6	Jessore Rampore Poori Comillah Gya	Beauleah 	42 28 25 23 22	9	Serampore Hughli and Gya Dacca Bhagulpore		27·5 14·8 13·7 11·7 10·0

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3.5 from cholera, against 7 per 1,000 in the preceding week; 04 from small-pox, against 3; 11 from fever, against 10.5; 2.6 from bowel-complaints, against 3.4; '5 from injury, against '4; and 7' from other causes, against 6.8 in the preceding week.

The mortality of last week according to Sex, Class, and Age was as follows:—

According to Sex.		Accorain	g to Class.		According to A	ge.
	Ratio per mille.			Ratio per mille.		Ratio per mille.
Males Females Ratio of male deaths to every 100 female deaths, calculated on the pro- portion such mortality bears to the total male and female population		Christians Hindus Mahomedans		14'9 25'3 23'7	Under 1 year 1 and under 5 years 5 , 10 ,, 10 ,, 15 ,, 15 ,, 20 ,, 20 ,, 30 ,, 30 ,, 40 ,, 40 ,, 50 ,, 50 ,, 60 ,, 60 years and upwards	215·1 40·8 11·3 13·5 13·5 12·8 12·5 16·2 28·9 64·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

> W. H. GREGG, Dip. Publ. Health, Camb., Sanitary Commissioner for Bengal.

The 29th September 1890.

				population,						弱																					
#			or grand denths, or groups, or grand	kanto of maie di eyery 100 female calculated on the tion such mortality the total male and	III		5 8	8 2	191	8	3 #	140		death,	101	12	Ho femal	3	No female death.	193	8 8	10%	8	2	125	100		141	1/12	: 1	
		ı	PES OF ATTON NUM.	Females.	29.5	21.9	36.1	36-2	1.13	18.0	14.9	18.8	1	8-77 93	42.6	46.1	1	20.03	1 0	1.06	1.13	6.68	16-2	1.66	19.3	80.3	1 0.21	13.0	9	9.89	
n		Ser	RATIO PER 1,000 OF POPULATION PER ANNUM.	Males.	8.88	18.4	39.3	0.69	84.1	10.8	9.9	\$7.4	12.9	15.5	43.1	83.8	7.55	34.0	57.	04.4	19.8	7-07	14.9	2.00	8.96	80.8	2 00	1.12	1 12	7.9	
			Mark Control	Females.	6	1	=	6	-	13	94	ю	1	1	00	00	:	16	, .	1 0	90	98	1	=	2 2	9 00	3 0	0 0	20	03 62	İ
10			PEATUS.	Malos.	10	9	120	18	01	п	-	4	1	4	4	7	01	85	9 0	. 4	30	98	19	0	1, 0	01	1	2 4	01	03 64	
0		bre-	eds mi i	lation per annun	8.91	0.41	181	2.5	65.83	6.01	0.41	F.11	6.71	8.91	29.2	18.4	26.3	13.0	9.91	6.01	6.93	58.1	6.63	2.00	80.3	20	1000	000	1	e 6.8	1
		-ndo	d 10 000,1	All causes. Ratio of deaths per	0.68	1.0	2.2	3.0	60.80	13.7	9.0	2.55	0.9	8.6	8.83	39.4	90	45	9.9	1 20	F.08	10.3	9	9	90	Q1				9.18	İ
101	TO-		N PR	Other diseases.	1.6	1.	8.4	9.	9.4	1.1		90	0 9	11	-	01.0	-	11	<u> </u>	0.0	10	18-7		6:4	100	1116	0.00	0 1.0		. 04	
0	3		POPULATION M.		1.2		**	-				1,		1	-	7			7		. 40	-		9	i u			. 9	2		
ACCORDIN	CORI		Popu	· Canful	- 37			96	78	60	+0			-	1	99		10			99			gi.	77	0.8		100		9 11	
100	0.273		1,000 CF ANNU	Bowel-complaints.	8 87		*	6	G-	7 2.3	9.5	6		3	90	2.0	4	3 4	: 0		65.50	10				10/6			. 15	e 01	
MORTALITY	ALIT	11.	PER L.	Pevers.	15.3	4	16.4	15.	6	ô	7	18.9	1	11	45.8	6.83	-	1.6	io ė	63.1	6.9	2.50	io	9	10.5	di		0.6		25.3	
TRU	ORI		RATIO P	small-por.	_ !			1	1	1		1	1	1	i	1.	1	,	1								1 3	1	1	3 3	MP DE
		Disease	KA	Оројети	I	- 1	1	1	- 1	9.	*	i	i	1.7	1	1	1	9.6	1		2.2	3.4	91	90	50	30.3			1	1 1	
				*səsnəə nV	19	13	05	202	00	Få	60	13	1	11		15	95	4 ,	4 4	-	63	69	13	80	66	39	08	90		15 4	
				Other diseases.	. 60	10	o.	11	-	03		01	1	1	1	04	1.	18	- 0	-	14	20	46	9	90	40	11		. 3	1 01	
			1 2	-Eanful	-	1	1	- 1		1	1	1	1	1	1	1	:	1			04	1	1	1	-					1 1	1
			S FROM	.etniniqutos-tewod	99	ю	93	29	1	*	-	1	1	-	1	94				1	10	1	1	-	60	41	5	. 65			1
			DRATHS	Fevers.	10	60	10	on	1	17	93	10	ı	1		=	-	14		9	50	88	4	ю	13	. 09	0	. 11		0 81	
				.xoq-llam8		1			1	1	1	1	1	-	1	1		-					,	,	1				1		
	1			Cholera	4		i	1	1	-	1		;	-	6			•	. *		17	2	03		*	30		:		1 1	1
		1	Dato wast2	Ratio of male births.	88	200	243	69	100	ш	No female birth.	100		88	ofemale birth.	98	202	130	300	99	7.4	96	75	100	123	115	143	198		birth.	1
				Total.	33.6	8.6	₹9.4	31.4	37.7	8.18	N 9.41	0.98		312.225	-	7.00	14.0	202	7.6	9.77	15.3	0.98	16.7	2.3	8.83	88-8	8.08	38-9	N F-01	147	1 8
			ER 1,0 LATIO	Pemales	18.3	1.6	11.5 3	19.6	18.8	10.3		13.5		8.91	-	23.6	-		60	1.1	8.8	13.7	9.6	3.6	10.5	18.1	12.7	6.61		-	900
	BIRTHS		RATIO PER 1,000 OF POPULATION PER ANNUM.		12.3	6.3	27.9	11.8	18.8	11.0		2 2 2			1000	15.8	-		630	8.8	9.9	12.3	2.5	3.6	13.6	15.1	18.1	1 0.61	10.4	1000	
	BIB	-	- N - N - N - N - N - N - N - N - N - N	,eolaK		9	24 27	11 93	NO CO	38	2 1	2		(U) (U)	2 4				4	00	4	38 15	14	9	68	88 11	34 18	43 18	3 1	VER 200	-
		0	40	- Totak	Braile	01	4-		100	18						2 4	Miles		-	04	122	80 8	8	90	13 8	13 8	14 .	81	100	-	1 450
			NUMBER OF	Femules.	-	4					10 1				•	9 6			60	1	20 2	18	9	62	16, 1	15	20 1		60	9	1 818
		1	N.	Males.	10		11			3	THE										3.1	84	The state of				100	21			1 20
	TON.	-		-LetoT	111000	83,560	31,687	\$6,496					-			7.016		11770		18,506	160,237	16,121	5 43,465	8 42,742	8 66,696	4 61,670	8 57,458	8 57,520	3 15,016	100311 ANS 12000 ANS	8 1,061,674
	POPULATION	1		Permetes	16,017	16,638	16,899	12,937	2,464	87,660	6,979	14,219	4,655	ara'er	9,000	2,020	87.879	4,956	8,790	5,358	81,475	37,831	22,505	19,658	32,822	86,554	27,813	29,366	6,553	11,687	510,588
	FOI			Maios.	18,068	16,927	15,858	13,559	3,646	53,153	7,836	10,400	4,028	10,100		-	48.789	7,605	18,840	8,158	78,762	88,990	20,960	23,084	88,774	25,116	29,640	28,154	8,463	13,247	156,886
		GIZ	11				hinsu-	1		-	1		1		lock				. 1	-	1	*			1	1	1				-
			NAMES OF MUNICIPALL TIES.		Bardwan	Midnapore	Hughli and Chinsu-	Serampore	Utterpara	Howrah	Ball	- Annual man	Santinore		Rammora Rosenlosh	Darilling		Narainganj	Chittagong	Comillah	Patna Oity	Gys	Arrah	Mozufferpore	Durbhanga	Chupra	Bhagulpore	Monghyr	Purneah	Poori	Total
			DISTRICTS,		1	ore	Hughli H	Serampore {	-	Howrah	, ,	Winddon's		1		1		Daces { N	Chittagong O			1	1		Rarner Rarner	1	2	Purrough.		1.001 m	

DISTRICTS. MUNICIPALI.						Section 1																								į
NAMES OF TER.															MORTALITY	LILL		ACCORDING	NG TO	1										
NAMES OF TIES. MUNICIPALIA					Ola	Class.															•	Age.								
Burdwan		DRAT	ВВАТИВ А МОИ	0 10		R.	RATIO PERI,000 OF POPULA- TION PER ANNUM.	B1,000	DA AO	PULA.					Вватив.	.н.е.							RATIO	PRE 1,00	0 oy Po	1,000 OF POPULATION	PHR	ANNUM.		
Burdwan	Ohristians.	Hindus.	Mahomedans.	Buddhists.	Osher chases,	Ohristians.	-aubniH	Mahomedans.	Buddhists,	Other chases.	Under 2 year.	sand under 5 years.	5 and under 16 years.	10 and under 15 years.	15 and under 20 years.	30 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	to years and up-	('nder ! year.	-snd under5 years-	of read under 10	at rebnu bna of	15 and under 20 years.	30 and under 30 years.	So and under 40 years.	40 and under 80	50 and under 60 years.	-qu bas snd up-
	1	*	ю	-	1	1	30.7	7 25.3	60	1	1	-		-	1	60	-	*	61	:	479.7	\$2.0	83	1 20.7	1	19.7	7.5	- 47	\$	-
Midnapore Midnapore	-	3		-		1	0.81	8.88	90	*		-	1	91	:	1	01	+	09	4	140.0	23.1		34.5	-	1	18.8	1	5.09	113
Hughli Rughli and Obin-		8	60	17	1	4	111	1 25.3	90	1			3	!	-	4	80	89		10	929.0	70.8	18.0	1	1	5.55	27.3	37.	-	125
5	*	12	9	1	1	1	48.3	.3 333.6	9.1	4	A	or.	01		-	*		1	60	1	582-9	57.6	20.7	53.4	23.1	9.88	1	1	81.2	2 261
Serampore Utterpara	+	80	1	1	1	1	50.50	60	1			1	1	1	1	1	1	1	1	-	323.0	1	1	1	i	1	98.0	-	1	2007
G Howrsh	-	51	3				0.91	116	9.1			50	1	1	-	-	01	1	91	10	151-2	65.7	8.3		1	10	2.0	.5	18.	6 41.
HOWITH BAB	1		1 00	1		3.2	The same	9		1	3	1	3	1	1	1	1	1	-	1	1	1	1	1	1	1	1	26.	.65	6 71.0
Krishnagar	1	-				216	4 25.3	7	8.8	1		10	_		1	1	1	i	1	*	524.3	21.1	16.	18-2	1	1	1	1	1	120
Nudden Raunghat		1		1	-			40			1		1	1	:	:	ŧ	-	į	1	;	1	1	1	1	i		8.15	m	1
Santipore	1	. 10	6		1	1		(and	8.9	1		0)		1	1	-	-	04	:	*	123.1	17.9	1	i	1	10.6			9	105.9
Jessore Jessore	1			5			46-1		8.08	1		-	1		-		-	1	-	*	268.0	_	:		0.11.0		34.0		2 25-	4 113'6
'e Rampore Beaul	eah	1		9	1		912.3 42		81.8	1		10	61		i	60	1	-	-	-	6.049	73.3	62.0	6.85		87.5		21.75	14	9 54.0
Darjiling Darjiling	1			1	1	1		M. C.	1	1			1	1	1.	1	1	1	1		829.2	8	1	1		1	5	3 *		2004
Dacca Dacca	1	8	60	1	*	100		201	87.3	!		*	10			•	9	00	1	0 0	Tra	82.3			i-	1 13.6	7		6 22 9	-
2	1							94	20.3	1	•		-	1	i	1	- 0	1	1	51 -	1 9	92.6		1	1	1	24.3		1	159.5
		1			1		13		1	-	E Ki					1					177.	900-8	1 1	1		1	2 10	1	1	
	1			:		17/15		BALLS DATE:			.5			1							2 7		3	1					68.3	311
	•	•	1 1	04			61 6		15.3					10	24 ,	0' 4	00 0	9 1	, ,		0.60	6.64	9			0.6		9.91 6		0
			117		•		1 00	11/2	9 9 9	1						ľ					101	+07	1 :			drill	9 9		3 9	
Manufacture Manufacture						•	1	in it	8.88					100.7		×			: 00	, 0	108-5			10.1	201				. 4	00 00
1			86	, ,			- 64-7	TAN	8.41							00				9	253.5		9.9	0			2 6.8		0.	2 1
		8		00			3		84.9				62	87	8	01	80			-	36.1	_		2 81.1		9 11	3 20.0		1 118	- 61
ipore		-		6	1		2	14.4 87	27.5			90	91	61	-	-	94	1	1	60	348	19-2		16.5	5 13	*	8 11.2		60	45.5
Monghyr	!	=		92			2.92		12.4			11	92	1	-	0.1	01	80	-	-	385	16.7	1	*	18-8	.01 8	1 11	7	24.5	13
Purneah	1		01	99		1	. 11.8		18.8		1	1	1	1	91	03	i			1	1	1	1		104.6	6 31.7	1	•		
Pecri Poori	1	15	1	*		•	81.8	90		1		1		69		01		101	01	•	171.6		9.96	4.92	0.83	761 0.	13	00	98	116-
TOTAL	1	98.3	134	1=	1	17	14.9 25.3	1000	12.83	1:	105	1	18	- 25	67	1 88	13	8	187	81	215.1	1 40.8	11.8	8 13.5	13.2	13.8	18.2	.91 9.	5.8	9 64.1

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 27th September 1890, as compared with the corresponding week of the previous year.

				NDING SATURI H SEPTEMBER			DING SATURD SEFTEMBER	
NATURE	OF CARGO.		Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
			No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy Jute Firewood Other articles		::	335 318 83 722	85,630 1,17,435 41,900 1,83,010	1,424 2,148 649 2,530	321 216 194 1,042	63,050 1,16,050 74,350 2,62,750	1,041 1,535 1,256 3,765
	Total		1,458	4,27,975	7,051	1,773	5,16,2(0	7,597

EAST INDIAN BAILWAY.

Statement of Goods Traffic in Staples carried during the 5 weeks ended 30th August 1890, as compared with the same period of 1889.

	STAPLES.	180	90.	18	R9.	Incre	ense.	Deor	3480
	CIALIBO.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight
		Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
	Cattle	No. 20 87	275 816	No. 40	621 625	No	191	No. 20	84
NIMALS, LIVING	Sheep and goats	,, 3,140	2,422	,, 4,689	3,654	» ·····		,, 1,549	1,23
Sorax	COther kinds	799	576	,, 203	298	296	278	*******	******
anes and ratans					******		439.441	*****	*****
aoutehoue (India hinese and Japan		16	29	29	36		******	6	*****
oal and coke, up	40 C 40 00 00 00	7,32,982	1,86,723	6,05,672	2,18,713	1,27,310	20000		31,99
Ditto, dov		31,54,033	3,99,431 14,365	25,95,189 22,975	3,41,723 20,118	5,58,844	57,708	6,883	5,7
	(Twist and yarn (European)	7,012	8,090	7,612	8,929	******	414144	600	8
FACTURED.	Piece-goods (European)	12,018 64,790	7,444	11,928 70,744	7,404 79,522	90	40	5.954	7,3
FACTURED.	Ditto (Indian)	19,331	11,423	19,068	10,717	263	706	71.00	
10 Carl 1 (10 Carl 1)	Asafoetida	127 728	1,111	961	1,201	63	25	233	******
RUGS AND MB-	Intoxicating drugs (other than	785	462	1,089	448	******	14	354	. ******
DICINES.	opium, i.e., arsenic, bhang,					. II - 1 14			
	(Indigo	1,671	553	9,625	1,889	·		7,954	1,3
YEING MATE-	Madder or manjit	295	178	183	190	100	42		*****
RIALS.	Safflower	9,585	9,089	6,019	2,134	162 3,566	6,955	10111	
	Other kinds	2,408	2,366	1,648	1,208	755	1,158		******
arthenware and	Jute, raw	28,780	928 3,461	43,477	1,009 4,588			14,687	1,1
IBROUS PRO-	Do., manufactured (gunny-	46,186	21,847	53,754	28,911			7,568	7,0
DUCTS.	Other fibres, raw	490	865	2,012	1,116			1,522	2
ere a	Ditto, manufactured	1,436	764	1,012	466	424	298	1000	*****
BUITS & NUTS	Cocoanuts	4,375 27,790	2,273 17,986	3,518 25,992	1,812 16,846	857 1,798	461		******
A STATE OF THE PARTY OF THE PAR	Wheat	2,71,533	75,540	3,11,863	90,850		1,140	40,330	15,
Deren	Gram and pulses	2,69,525 5,21,264	68,167 97,366	2,91,405 4,81,924	1,05,966	39,340	10000	21,880	9,1
BAIN & PULSES	Do., unhusked	71,238	8,293	84,408	9,583	ARREST	*****	13,170	8,0
	Other rain and spring crops	1,16,286 14,652	18,110 30,677	83,816 21,023	17,800 39,991	32,470	810	6,871	*****
overnment stores ums and resins		3,236	1,678	4,349	2,537	2	******	1,113	9,
	Hides of cattle	20,665	9,860 6,458	19,449	10,035	1,216			1
IDES & SKINS	Skins of sheep, goats, and small animals,	13,495	0,400	20,084	7,872	******	3,33444	6,589	1,4
orns		1,917	1,376	1,514	906	403	470		******
AC	Do., shell	11,675	7,194	8,434	5,85a	3,241	1,884	40	******
Branch M. Coll	Do., stick and other kinds	17,752	5,492	8,957	3,045	8,795	2,447	100 10	111.40
BATHER	Leather, unmanufactured Ditto, manufactured	1,708	3,566 2,159	1,506 1,682	3,189 2,270	197	377	69	
iquors	manufactured	15,599	15,304	15,059	14,823	540	480	in the	******
imoreale		1,05,404	17,040	1,28,088	193	26	36	22,684	1.0
ETALS AND	Brass and copper	21,912	10,983	32,179	24,683	******	******	10,267	13,
WHEN DESIGN CONTRACT	Othormetale	82,933 3,209	51,816 2,695	83,157 5,625	52,285 4,842	******	******	2,416	2,
ils		1,21,194	51,858	71,828	37,442	49,366	14,416	******	*****
pium		2,038	1,540	716 1,793	823	141.517 DAT	76	630	1 2 3
ints and colours	Ghos	29,017	22,642	24,148	1,473 19,309	4,869	3,333		1,,,,,,
ROVISIONS	Other kinds	2,73,102	4,587 9,030	7,808	4,430	443.04	157	1,564	******
Ditto ditto,	Construction Account	1,22,028	62,104	1,46,260 1,04,201	5,040	1,26,842	3,950		*** **
lt		3,20,500	72,752	3,69,796	76,310	***		49,296	3,
LTPETRE, &C.	Saltpetre Other saline substances	31,023 31,665	14,710 8,955	41,184 11,138	18,371 3,326	20,527	5,629	10,161	3,
the second second	Linseed	5,48,870	1,67,238	6,17,920	1,88,768	4. 100		69,050	21,
OIL-	Mustard and rape Til or ginjelly	70,010 2,573	13,101	2,29,210 5,013	39,341	******	*******	1,59,200	26,
PROS!	Other cilepeds	58,871	15,434	98,641	23,174	*****	*****	39,770	7,
OTHER (Indigo seed	16,771	9,065	16,071	6,965	700	2,100		1.7.41
(seeds.)	Other kinds	36,935	17,780	45,225	19,440			8,290	1,
in the second of	Silk, raw	831	769	1,639	997	1000		808	309
rx	Do., manufactured (European) Do., ditto (Indias)	1,408	848	1,178	758	230	90	******	******
ices		6,579 2,10,449	5,899 23,498	7,487 2,34,430	0,010	*****	*****	1,358	55,0198
one and marble	Sugar refined	57,102	17,529	78,445	23,829 17,410	******	119	23,781 21,348	
GAR	Do., unrefined	56,108 2,937	13,198	53,596	8,873	2,512	4,325	*** 7 1 30	******
A		4	2,850	4,340	4,119	4	3	1,403	1,
HURCCO +++	444	27,464	9,592	43,211	15,871	******		15,747	6,
00D	Timber	27,635 14,927	3,718 353	28,643 17,409	4,915 648	******		1,008 2,482	1,
CX		1,469	1,406	1,716	1,583	******	******	247	COL
00L	Do., manufactured (Euro-	303	580	278	493	25	87	A STATE OF THE PARTY OF THE PAR	*****
	Wool, manufactured (Indian)	950	980	1,261	1,205			311	1500
Marine Company of the	Shawls	2,34,498	1,29,833	2,32,452	*****	1	2		*****
ll other articles o	The state of the s	27,022	8,081	14,896	1,84,378 3,782	2,046 12,126	4,299	******	5,
otatoes		31,778	14,903	36,673	18,266	*****	200-0	4,900	3,
	Most 1	80,71,036	19,03,626	76,37,784	19,80,641	10,17,976	1,30,527	5,84,724	2,07,
E CANCELLO AND THE PARTY OF	10ta1	1	September 12 m	10 Last 19 Cat 19	ALBERTA STATE	PATRICIPATION	E-SPECIAL ST	DESCRIPTION OF THE	16 10 to 10 10 10 10 10 10 10 10 10 10 10 10 10

General remarks on the fluctuation of principal staples carried over the East Indian Railway during five weeks ended 30th August 1890.

INCREASES.

Coal and coke.—There was an increase in the weight of upwards traffic carried, attended with decreased earnings; and this was due to larger bookings of short distance coal for the Bengal and North-Western Railway; to increased despatches of short distance Umaria coal, and to a falling off of long distance traffic for the Bombay, Baroda and Central India Railway to Cawnpore. Agra and Delhi.

The improvement in the downward traffic was from nearly all the colliery stations, and was due chiefly to demand for export

Turmeric.—Chiefly in despatches from Howrah to several stations on this line and the Oudh and Rohilkhand Railway.

Lac, shell and stick.—Due to a good demand for shell-lac for export to London. There were also considerable despatches of stick-lac from stations on the Bengal-Nagpur Railway vid Asansol.

Oil.—Chiefly kerosine oil from Howrah to Patna.

Railway material, Foreign.—The increase under this head was chiefly in rails from Howrah to Benares, for the Oudh and Robilkhand Railway.

Other saline substances.—Chiefly hide salt from Patna to different stations on the Howrah and Sahebgunge districts.

Sugar (refined and unrefined).—There was a decrease in the weight of unrefined sugar, chiefly jaggree, from the Oudh and Rohilkhand Railway viá Aligarh to Agra and to stations on the Bombay, Baroda and Central India Railway passing Hathras; the slight increase in the earnings of refined sugar was in consignments booked from Howrah to the North-Western Provinces.

Bones.—The increase in this commodity was principally in despatches from Mokameh Ghât, Digha Ghât, Agra and viá Mogulsarai to Bally and Sealdab.

Cotton.—Due to exceptional despatches last year from Agra to some cotton mills near Calcutta, for manufacture.

Piece-goods, European.—The falling off was chiefly in despatches from Howrah owing to the condition of the import

Gunny .- Limited demand, owing to the dull state of the seeds and wheat markets, led to the falling off recorded under this

Wheat,—The falling off was chiefly in long distance despatches from the North-Western Railway and stations on the Tundla district to Howrah.

Gram and pulses.—Principally in gram and arhar from stations on the Tundla district, owing to the cold-weather crops having been injured by frosts; also in despatches from the Oudh and Robilkhand Railway vid Moghalsarai to Howrab.

Rice (husked and unhusked).—The increase in the weight carried was chiefly in downwards despatches from stations on the Loop line to Howrab, to replenish stocks and for export. The decreased earnings were entirely in upwards consignments despatched last year from stations on the "A" district.

Government stores.—Chiefly in despatches from Howrab, Allahabad Fort, Agra and vid Delhi from stations on the Rombay.

patched last year from stations on the "A" district.

Government stores.—Chiefly in despatches from Howrah, Allahabad Fort, Agra and via Delhi from stations on the Bombay, Baroda, and Central India Railway.

Brass and copper.—Principally in despatches from Howrah owing to limited demands.

Salt.—The falling off was chiefly in receipts of Kheura salt at Patna; of Sambhar salt at Hathras for stations on the Oudh and Robilkhand Railway; and of Faraknagar salt at Delhi for stations on the North-Western Railway.

Salipetre.—From Patna and the Bengal and North-Western Railway principally to Howrah for export.

Seeds.—Chiefly in linseed to Howrah for export and in mustard-seed for local consumption in the Burdwan district.

Stone.—The falling off was principally in despatches of road metal from Pakur.

Tobacco.—Chiefly in despatches from the Tirhoot section of the Bengal and North-Western Railway to Cawnpore and Jubbulpore owing to roads in Tirhoot being impassable.

W. A. DRING, for Traffic Manager.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 23rd September 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY

Approximate Return of Traffic for week ended 20th September 1890, on 1,525 miles open.

	COACHIN	G TRAPPIC.		AND MINEBAL	Other earnings		TRAVPIC	TRAIN-MIL	ES RUN.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan-	Total.
		Rs. A. P.	MDS. 8.	Rs. A. P.	Rs. A. P.	Rs. A. P.	a mind		
al traffic for the week per mile of railway previous 11 weeks of half-	*222,606	*2,15,694 8 0 141 6 3	18,46,753 20	4,85,591 9 6 285 8 8	15,086 3 11 9 14 3	6,66,372 5 5 436 13 2	58,900}	80,317	139,2172
A7	2,393,758	23,99,565 4 0	2,00,06,528 30	44,41,887 7 0	1,77,209 13 10	70,18,662 8 10	698,190	811,449	1,509,6394
Total for 12 weeks	2,616,364	26,15,259 12 0	2,18,53,282 10	48,77,479 0 6	1,92,296 1 9	76,85,034 14 3	757,091	891,7661	1.648,857
COMPARISON.		No.				On the Royal I			
l for corresponding week previous year mile of rail way correspond-	232,003	2,36,438 14 7	21,07,304 30	4,52,468 5 4	16,751 8 5	7,05,658 12 4	65,464	77,739	143,2
week of previous year		154 15 10		296 9 8	10 15 8	462 9 2			*****
evious year	2,857,414}	28,22,368 -7 3	2,54,58,072 0	52,99,326 0 5	1,98,952 3 8	83,20,646 11 4	782,690	974,656	1,757, 46

^{*} The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic on account of "Aupar Pucksba."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

MIP NIST	TS FOR WERE	ENDING 1889	RECEIP 20TH	TS POB WEEK SEPTEMBER		AT	RECEIPTS PROPRIL 1889 TO 21	ST	AP	RECEIPTS PRO RIL 1890 TO 201 SEPTEMBER 1896	III	Total	Total
in ire ed.	Receipts.		Mean milease worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease in 1890.
+	Ra. 7,05,650	Ra. 463	1,525}	Rs. 6,06,372	Ra. 437	1,525}	Ra. 2,03,47,398	Ra. 534	1,5254	Rs 1,88,03,965	Ra. 493	Rs.	Rs. 15,43,423

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, on 57; miles open.

	COACHING	TRAPPI	c.	MERCHANDISE TRAF		NUMBER OF STREET	Total earnings.	TRAPPIC '	PRAIN-MILE	s nun.
	Number of passengers.	Recei	pts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total.
	14 24	Rs.	A. P.	MDs. s.	Rs. A. P.	Rs. A. P.	Re. A. P.			
Total traffic for the week Or per mile of railway	*10,042 176	*5,360 93	5 0 11 5	34,090 0 596 0	2,521 1 0 44 1 2	33 6 0 0 9 4	7,914 12 0 138 5 11	1,142	454	1,506
For previous 11 weeks of half- year	103,618	52,322	1 0	8,43,446 20	21,149 7 0	472 6 0	73,943 14 0	10,879	6,361	17,240
Total for 12 weeks	113,660	57,682	6 0	3,77,586 20	23,670 8 0	505 12 0	81,858 10 0	12,021	6,815	18,838
COMPARISON.								•		
Total for corresponding week of previous year	23,6004	14,679	12 11	49,503 10	2,027 7 0	50 11 6	16,757 15 5	2,021	659	2,650
Per mile of railway correspond- ing week of previous year	413	256	10 3	865 20	35 7 2	0 14 2	292 15 7			
Total to corresponding date of previous year	164,492	91,141	10 2	5,94,032 10	27,474 2 0	519 5 3	1,19,185 1 5	15,596	8,505	24,101
				Company of the Compan		Harris de Lorenza de Constitución de Constituc	The state of the s	market and a 17 and	A COLUMN TO SERVICE	State Co.

[•] The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic on account of "Aupar Pucksha,"

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

	TS FOR WEEK			IS FOR WEEK SEPTEMBER		Δ1	L RECEIPTS FRO PRIL 1889 TO 21: EPTEMBER 1889.	T	A	RECEIPTS FRO PRIL 1890 TO 20 SEPTEMBER 1890	TH	Total	Total
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease i 1890.
	Re.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	RA
#67½	16,758	293	57%	7,915	138	571	2,33,131	163	571	2,08,603	146		24,538

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, on 221 miles open.

	COACHIN	G TRAFFIC.	MERCHANDISE TRAF		Other earnings	Total	TRAPPIC	TRAIN-MIL	LES RU
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	earnings.	Coaching.	Merchan- dise.	Tota
	The said	Rs. A. P.	Mps. s.	Rs. A. P.	Rs. A.P.	Rs. A. P.			
Total traffic for the week Or per mile of railway	15,000	3,710 12 0 166 12 5	3,757 10	134 12 0 6 0 11	4 10 0 0 3 4	3,850 2 0 173 0 8	923	45	10
For previous 11 weeks of half- year	187,631	45,948 15 0	50,698 10	2,213 11 0	66 14 0	48,229 8 0	9,849	518	10,80
Total for 12 weeks	202,721	49,659 11 0	54,455 20	2,348 7 0	71 8 0	52,079 10 0	10,772	658	11,38
COMPARISON.					All Types				
fotal for corresponding week of previous year	16,3641	3,988 7 0	8,822 0	255 8 0	3 12 9	4,247 6 9	922	118	1.4
ing week of previous year otal to corresponding date of previous year	209,027	179 4 1 49,571 9 4	64,613 20	11 7 6 2,143 2 0	0 2 9 51 3 3	190 14 4 51,765 14 7	ii,iii	561	115

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

	SEPTEMBER			S FOR WEEK SEPTEMBER		A	RECEIPTS PROPERTY IN SECTION OF S	ST	A	L RECEIPTS FRO PRIL 1890 TO 20 SEPTEMBER 1890	TH	Total	Tot
Mean milenge worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts		Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1800.	decress
	Rs.	Ra.		Rs.	Rs.		Rs.	Ra,		Rs.	Rs.	Rs.	Re
22)	4,247	191	221	3,850	178	221	1,34,403	242	221	1,36,927	246	2,524	

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.) Approximate Return of Traffic for week ended 13th September 1890, on 763 miles open.

	COACHIN	G TRAFF	ic.	MERCHANI		BAND MIN	ERAI	Other es	ted),	Total	TRAFFIC	TRAIN-MILE	s Run,
	Number of passengers.	Coach		Weight carried.		Receip	ots.	steam-l		earnings.	Coaching.	Merchan- dise.	Total.
Market State of the Control of the C		Rs.	A. P.	MDs.	8.	Rs.	A. P	Rs.	A. P.	Rs. A. P.			
Total traffic for the week Or per mile of railway or per previous 10 weeks of half-yesr	118,990 177 1,412,190	50,450 75 5,52,146	0 0	8,66,220 544 54,44,430	0	89,520 117 13,18,936	0 0	6,620 *1 1,41,763	0 0	1,46,590 0 0 193 0 0 *20,12,845 0 0	21,966 221,774	26,054 828,079	48,020 549,853
Total for 11 weeks	1,531,180	6,02,596	0 0	58,10,650	.0	14,08,456	0 0	1,48,883	0 0	21,59,435 0 0	243,740	354,183	597,878
fotal for corresponding week of previous year	124,236 166 1,508,531	59,341 80 6,17,010	0 0	7,82,187 1,047 66,10,653	0 0 0	1,91,466 256 15,39,533	0 0		0 0	2,70,988 0 0 344 0 0 23,02,958 0 0	******	85,590 885,209	57,131 571,8:3

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECRIP 14TH	rs vor week September	ENDING 1889.		SEPTEMBER		Α	EECEIPTS FRO FEIL 1889 TO 1- SEPTEMBER 1886	HTH	Α1	RECEIPTS PROPERTY AND ASSESSMENT PROPERTY AND ASSESSMENT ASSOCIATION OF THE PROPERTY AND ASSOCIATION A	TH	Total increase in	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	mile worked per week,	1890.	decrease in 1890.
747	Rs. 2,70,988	Rs. 367	763	Rs. 1,46,590	Rs.	707	Rs. 44,38,400	Rs. 262	758	Rs. *45,42,093	Rs. 250	Rs. 1,03,693	Rs.

^{*} Audited up to week ending 2nd August 1850.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 125 miles open.

and a livery of 5000	COACHING	TRAFFI	σ.	MERCHANI		AND MIN	RR.	LL	Other earn	in on	Tota	AL	*TRAFFIC	TRAIN-MILE	s RUN.
	Number of passengers.	Coachi		Weight carried,		Receip	te.		festimated		carnin		Coaching.	Merchan- dise.	Total.
		Re.	A. P.	Mps.	8	Ra.	A. 1	P.	Rs. A.	. P.	Rs.	A. P.	T.F.	483	
Total traffic for the week Or per mile of railway	17,820 143	5,860 47	0 0 0 0	12,470 100		410	0		40 0	0	6,340 51	0 0	3,610	2,061	5 671
For previous 10 weeks of half-	265,292	80,707	0 0	3,73,570	0	28,060	0	0	2,307 0	0	*1,11,074	0 0	35,080	20,023	55,108
Total for 11 weeks	288,112	86,567	0 0	8,86,040	0	28,500	0	0	2,347 0	0	1,17,414	0 0	88,690	22,084	60,774
COMPARISON.				45						13					
Total for corresponding week of previous year	24,892	3,821	0 0	97,459		11,782	0	0	⁵ 15 0	0	20,618	0 0	3,594	3,326	6,920
ing period of previous year	199	71	0 0	780	0	94	0	0	*****	DE.	165	0 0			*****
Total to corresponding date of previous year	300,789	98,743	0 0	6,28,572	0	57,805	0	0	1,746 0	0	1,54,794	0 0	38,962	26,506	64.768

^{*} Audited up to week ending 2nd August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

	S POR WHEK SEPTEMBER		RECEIP 13T1	TS FOR WEEK			L RECEIPTS Puc 880 TO 14 CH SEI 1880.			RECEIPTS PRO 890 TO 13TH SEP 1890.		Total	Total
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	M-an mileage worked.	Total receipts.	Per mile worked per week.	Mean milesge worked.	Total receipts.	Per mile worked per week.	increase in 1830.	decrease in 1899.
195	Rs. 20,018	Rs.	125	Rs. 6,340	Rs. 51	125	Rs. 3,34,641	Rs.	125	Rs. 42,82,022	Rs. 94	Rs.	Re. 51/719

[.] Audited up to week ending 2nd Augu t 1890.

^{*} Audited up to week ending 2nd August 1890.
† Excluding statemer caranings.
Norm.—The decrease, as compared with 1889, is general, and is due to partial failure of a bridge near Bogoola which necessitated the stoppage of goods trains and me of the night passenger services.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 86 miles open.

	COACHIN	G TRAPP	c.		MERCHAND	TRAF		ERAI	24	Other ear	mir	nge	Tota	1		TRAFFIC	TRAIN-MILI	ES RUE.
	Number of passengers,	Conch			Weight carried.	100	Receip	ts.		(estimat			earnin	gs.		Coaching.	Merchan- dise.	Total,
	- 4	Rs.	A. 1		MDs.	8.	Rs.	A. 1		Rs.	۸.	P.	Rs.	۸.	P.		Soul meeting	
Total traffic for the week Or per mile of railway	14,390 167	4,130 48		0	7,040 82		720 8	0		50 1		0	4,900 57	0	0	2,414	690	3,10
For previous 10 weeks of half-	142,890	45,930	0	0	1,27,810	0	11,006	0 (0	3,326	0	0	*60,262	0	0	23,484	6,702	30,18
Total for 11 weeks	157,280	50,060	0	0	1,34,850	0	11,726	0 1	0	3,376	0	0	65,162	0	0	25,898	7,892	33,290
Comparison.		11.0			- 1000						Y			9	L,		*	
Total for corresponding week of previous year	15,224	4,997	0	0	25,636	0	2,327	0 (0	239	0	0	7,563	0	9	2,537	1,499	4,038
period of previous year	177	58	0	0	298	0	27	0 (0	3	0	0	88	.0	0	******		
Total to corresponding date of previous year	162,070	49,111	0	0	1,79,815	0	12,686	0 ()	2,482	0	6	64,279	0	0	27,257	9,757	87,01

^{*} Audited up to week ending 2nd August 1880. S≈spension of goods trains on the Eastern Section has affected the traffic of this line.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

	TS FOR WEEK SEPTEMBER			TS FOR WEEK		A	RECEIPTS PROPRIL 1889 TO 14	TH		A PRIL 1890 TO 13 SEPTEMBER 1896	TH	Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked,	Total receipts.		Mean mileage worked,	Total receipts.	Per wile worked per week.	increase in 1890.	decrease in 1890.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Re.	Rs.	Rs.	Rs.
86	7,563	88	86	4,900	57	86	1,38,558	67	86	*1,47,028	71	8,465	

^{*} Audited up to week ending 2nd August 1890, NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 271 miles open.

	COACHING	G TRAFF	ic.	7	MEECHANDISE TRAI			Re	AL	Othe				Tota	1		TRAFFIC	TRAIN-MIL	BS RUN
	Number of passengers.	Coach			Weight carried.	1	Receip	ts.		(ost	ima	ted).	estnin	ıga.		Coaching.	Merchan- dise,	Total
		Rs.	A. 1	r.	Mps. s.		Rs.	4.	P.	1	Rs.	۸.	P.	Rs.	۸.	P.	er bred	Anna Ca	
Total traffic for the week Or per mile of railway Por previous 10 weeks of half-	2,520 93	850 31			8,190 0 80 0		110 4	0	0		10	0	0	970 86	0	0	580	170	756
yenr	30,820	10,909	0	0	84,350 0		4,474	0	0		158	0	0	*15,541	0	0	5,518	2,823	8,541
Total for 11 weeks COMPARISON.	33,840	11,759	0	0	86,540 0		4,584	0	0		168	0	0	16,511	0	0	6,098	2,993	9,00
Total for corresponding week of previous year	2,826	1,000	0	0	9,844 0		648	0	0		37	0	0	1,685	0	0	586	395	98
ing period of previous year Total to corresponding date of	104	37	0	0	343 0	18	24	0	0		1	0	0	68	0	0			******
previous year	32,677	11,941	0	0	105,438 0	1	6,925	0	0	Design of the last	575	0	0	19,441	0	0	6,296	4,003	10,29

^{*} Audited up to week ending 2nd August 1890,

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

	TS POR WEEK SEPTEMBER		Весегрт 13тн	8 POR WHEK SEPTEMBER	ENDING 1890.	Δ1	L RECEIPTA PEC PRIL 1889 TO 14 SEPTEMBER 1889	TH	A	L RECEIPTS VRC PRIL 1890 TO 1: SEPTEMBER 189	STH	Total	Total
Mean mileage worked.	Receipts.		Mean mileage worked.	Receipts.		Mean milenge worked.	Total receipts.	The second second second	Mean mileage worked.		Per mile worked per week.	increase in 1890.	decrease is
271	Ra. 1,685	Rs. 62	272	Ra. 970	Rs. 36	271	Rs. 45,020	Ra.	271	Ra. *42,528	Ra. 65	Ra	Ra. 2,497

[.] Audited up to week ending 2nd August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for first 12 days of July 1890, on 691 miles open.

	COACHING	TRAFFIC.	MBRCHANDISE A		Other earnings (estimated), including	Tet-1	TRAPPIC	TRAIN-MILE	RS RUN.
1. 4.1115.12	Number of passengers.	Receipts.	Weight carried.	Receipts.	steam-boat earnings.	Total earnings.	Coaching.	Merchan- dise.	Total.
osal traffic for the week (on 691 miles open)	123,275 178'40	Rs. 56,595 81°90	M D8. 4,70,440 689'81	Rs. 55, 93 79 73	Rs. 12,367 17'90	Rs. 1,24,055 179'53	18,422	29,098	40,520
Total for 1 week	(a) 123,275	50,595	(6)4,70,440	55,093	*12,367	1,24,055	18,422	22,008	40,530
COMPARISO N.						THE RES			
Audited figures.	A PLANTA						e - 163	1000	G/2502
otal for corresponding week of previous year on 649 miles open open or mile of corresponding week of previous year otal to corresponding date of previous year	166,524 256°59 166,524	60,213 92.78 60,213	5,00,445 771,110 5,00,445	72,619 111:94 72,649	17,109 26:36 17,109	1,49,971 281°08 1,49,911	21,664 21,664	25,801 25,801	47,463

^{*} Steam-boat earnings for the week, Rs. 8,720. Do. do. to date, , 8,720.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot State Railways.

	TPTS FOR PIE			Pre Por Pires of July 18			RECRIPTS PROPRIL 1890 TO 13 JULY 1890,			PRIL 1889 TO 15 JULY 1889.		Total	Total
Sean lease rked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1889.	decrease in 1889.
691	Ra. 1,94,035	Rs. 179°58	649	Rs. 1,49,971	Rs. 231 08	654	Rs. 14,45,700	Rs. 150°23	649	Rs. 14,65,825	Rs. 152*02	Rs.	Ks. 20,125

⁽a) Excludes 5,554 passengers, being traffic common to B. and N.-W. and T. S. Railways.
(b) Do. 21,952 maunds, do. do. do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 19th July 1890, on 691 miles open.

and the second of	COACHING	g Trapyi	c.		MERCHAND T	ISE RA	AND MIN	ER.	AL	Other ear	nir	Pa			TRAFFIC	TRAIN-MILE	SRUN.
	Number of passengers,	Coach			Weight carried.		Receip	ts.		(estima)			Total ear	nings.	Coaching.	Merchan- dise.	Total.
		Rs.	۸.	P.	MDs.	8.	Rs.	۸.	P.	Rs.	۸.	P.	Rs.	A. P.	la in Lit	100	
al traffic for the week (on if miles open) per mile of railway previous 1 week of half-	75,398 109-11	27,829 40°27		0	2,81,615 406'68		\$2,050 46'38			6,640 9°61	0		66,519 96'26	0 0	10,767	13,332	24,099
previous 1 week of half-	123,275	56,595	0	0	4,70,440	0	55,093	0	0	12,367	0	0	1,24,055	0 0	18,422	22,098	40,520
Total for 2 weeks	(a)128,673	84,424	0	0	(6)7,51,455	0	87,148	0	0	19,007	0	0	1,90,574	0 0	29,189	35,480	64,610
COMPARISON.																Mala bath	
Audited Squrec.							是後時							2 2 7			
of for corresponding week previous year on 640 miles															nonvenie		
mile of corresponding	77,002	20,962	0	0	3,50,863	0	40,785	0	0	7,830	0	0	75,577	0 0	10,07	14,260	24,334
to corresponding date of	118'65	41 54	0	0	5+0-62	0	62:84	0	0	12'07	0	0	116 45	0 0		*****	*****
evious year	243,526	87,175	0	0	8,51,308	0	1,13,434	0	0	21,939	0	0	2,25,548	0 0	31,738	43,061	21,799

[•] Steam-boat earnings for the week Rs. 5,860 Do. do. to date ,, 14,139

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot State Railways.

CHT)	PTS FOR WARH ENDING RECEIPTS FOR WEEK ENDING 20TH JULY 1899.					L RECEIPTS FRO PRIL 1890 TO 16 JULY 1890.			L RECHIPTS PRO PRIL 1889 TO 3 JULY 1889.		Total	Total	
an age ad.	Receipts.		Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1880-90.	decrewe in 1889-90.
22	Rs. 66,519	Rs. 96'26	849	Ra. 75,577	Rs.	656	Ra. 15,12,219	Rs. 146.70	610	Ra. 15,41,402	Rs.	Ra. 	Rs. 20,165

⁽a) Excludes 8,346 passengers, being traffic common to B, and N.-W, and T. S. Railways, do. do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 26th July 1890, on 691 miles open

	COACHING	TRAFFIC.	MERCHANDISE TRAI		Other earnings (estimated),	Total	TRAFFIC	TRAIN-MIL	BE ROX.
	Number of passengers.	Conching receipts.	Weight carried.	Receipts.	steam-boat earnings.	earnings.	Coaching.	Merchan- dise.	Total
Terni traffic for the week (on 691 miles open) Or per mile of railway Por previous 2 weeks of half-	75,985 109°96	Rs. 27.637 40'00	MD4, 2,17,943 315'40	Rs. 25,696 87,19	Ra. 5,893 7'80	R4. 58,726 84'00	10,912	12,187	23,09
year	198,678	84,424	7,51,455	87,143	19,007	1,90,574	29,189	35,430	64,615
Total for 3 weeks	(a) 274,658	1,12,061	(8) 9,69,898	1,12,839	* 24,400	2,49,800	40,101	47,617	87,718
Comparison. Audited figures. Fotal for corresponding week of previous year on 649 miles open. Per mile of corresponding week of previous year. Total to corresponding date of previous year.	71,479 110°14 315,005	23,870 36'78 1,11,045	2 ,87,380 442'80 1,1,38,688	30,641 47-81 1,44,375	8,856 18:65 33,795	63,697 97:64 2,88,915	10,444	12,834 52,895	25,278

[•] Steam-boat earnings for the week, Rs. 3,840. Do. do. to date, ,, 17,970.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot State Railways.

	RECEIPTS FOR WERK ENDING 27TH JULY 1889.						L RECEIPTS PROPERTY 1890 TO 261 JULY 1890,			L RECEIPTS PROPRIE 1889 TO 27 JULY 1889,		Total	Total
Mean mileage worked.	e Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked	Total receipts.		Mean mileage worked,	Total receipts.	Per mile worked per week.	increase in 1888.	decrease in 1888.
	Re.	Rs.		Rs.	Rs.		Rs.	Ra.		Rs.	Rs.	, Rs.	Rs.
691	58,726	84*99	640	63,367	97-64	658	15,69,994	142.75	649	16,04,769	146'68		31,775

(a) Excludes 11,055 passengers, being fraffic common to B. and N. W. and T. S. Railways, (b) Do. 47,292 maunds, do. do. do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATA RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 13th September 1890, on 801 miles open.

A STATE OF THE STA	COACHING	TRAFFIC.		S AND MINERAL APPIC.	Other earnings (estimated),	Mer. 1	TRANFIC	TRAIN-MIL	GES RUS.
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	including steam-boat, earnings.	Total carnings.	Coaching.	Merchan- dise.	Total.
	Gilleria	Ra.	M Da.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open) Or per unite of railway	77,450 112.08	26,850 88'85	2,87,490 416'05	85,750 61.74	6,460 9:85	69,060 99'94	12,680	8,700	23,03
For previous 9 weeks of half-	706,988	2,73,609	24,53,480	2,81,890	62,457	617,966	115,308	111,955	227,96
Total for 10 weeks	(a) 784,438	3,00,459	(b) 27,40,970	3,17,640	*68,927	687,026	127,988	120,745	345,703
COMPARISON.		The state of the s	The sense			THE REPORT	The Real Property of		THE STATE OF
Audited figures			THE RESERVE	500 1000					100
Total for corresponding week of previous year	78,050	27,470	2,14,481	17,427	5,337	50,234	11,457	9,143	20,60
Per mile of corresponding week of previous year, 649 miles open	120 26	42'83	\$30*48	26'85	8*29	77'40			-
Potal to corresponding date of previous year	836,195	2,88,165	33,48,713	8,77,376	90,079	755,620	114,923	149,872	264,84

^{*} steam-boat earnings for the week, Rs. 5,2:0.
Ditto to date, ..., 51,540.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot State Railways.

Ввенгр 13тн	TS FOR WEEK SEPTEMBER			s for week Shpinmana		AP	RECEIPTS FROM	TH		L HECEIPTS FRO APRIL 1889 TO SEPTEMBER 18	TO THE LOT	Total	Total
Mean milesge worked.	Receipts.	Per mile worked,	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked,	Total receipts.	rer mile worked per work	1890-91.	d scress
	Re.	Re.		Ra.	Rs.		Rs.	Re.		Ra.	Rs.	Re.	, Rr
691	69,060	99-94	649	50,234	77:40	668	20,10,706	126:13	649	20,71,273	133'77		.00,667

⁽a) Excludes 27,5:6 passengers, being traffic common to B. and N.-W. and T. S. Railways.
(b) Do. 1,26,118 maunds, ditto ditto ditto.

Printed and published by Edwin Mossis Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 1st October 1890.



The Calcutta Gazette.

WEDNESDAY, OCTOBER 8, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

ABSTRACT of the results of Meteorological Observations taken at the Alipore Observatory in the month of September 1890	205 205 205 205 206 206 206 206
	Results of the Meteorological Observations taken at the Alipore Observatory from 28th September to 4th Octobe 1880 Abstract of the results of the Barometric and Therometric Observations taken at 10 A.M. at the Meteorological Office, Chowringhee, in the month of September 1899 Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee from 28th September to 4th October 1899 Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 20th September 1890 Circular and Eastern Canals for the week ending 4th October 1890 Bengal Central Railway for the month of July 1890

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE EXCISE DEPARTMENT FOR 1889-90.

FINANCIAL DEPARTMENT-EXCISE.

Darjeeling, the 3rd October 1890.

RESOLUTION.

READ-

The Report of the Commissioner of Excise on the Administration of the Excise Department for the year 1889-90, with the observations of the Board of Revenue thereon.

In accordance with the orders of the Government of India, an account of the various systems of excise in force in Bengal has been prefixed to this report.

2. Mr. Westmacott took charge of his appointment as Commissioner of Appointment of Excise Commissioner. Excise on the 4th April 1889, and has worked in direct communication with district officers under the general supervision and direction of the Board. During the past year seven additional Deputy Collectors have been sanctioned for the better administration of special Excise Deputy Collectors work. There were previously 14 special Deputy Collectors employed on excise duty,

and the total number sanctioned is therefore now 21. With reference to financial considerations, however, only four out of the seven new appointments

General Revenues.

have been filled up, and the remaining three appointments are in abeyance. There are at present 17* districts in which the excise control is placed in the hands of a special * One Special Deputy Collector is employed as Personal Assistant to the Excise Commissioner. Deputy Collector, who is also made responsible for the administration of the income-tax, but who is, as a general rule, not entrusted with other revenue or any magisterial functions. Mr. Westmacott speaks very favourably of this arrangement, and observes that with few exceptions the excise administration in the 26 districts in which it has been entrusted to officers who have much other work to do has been greatly inferior to that in districts where there are special officers, and he would be glad if Government could place more special officers at his disposal. This view is not altogether accepted by the Board, who are not satisfied that the appointment of a special officer has always resulted in better work, and also point out that the deputation of an officer to excise duties alone is only beneficial when the excise work of the district is such as to occupy the whole of his time during the whole of the year; and add that it has come to their knowledge that in several districts in which these special officers are employed, the Collectors do not think that they have work enough to occupy the whole of their time, and wish to employ them on other duties. The question is one of considerable practical difficulty, and it is not easy to reconcile the conflicting claims of the head of a department, who naturally contends that the whole of the services of a staff of officers whose salaries are entirely defrayed from his own budget should be placed exclusively at his disposal, with those of district officers who are more interested in the efficiency of their general administration than in that of any particular department, and would gladly utilise the excise officer on general duties whenever necessity arises for doing so. It appears to the Lieutenant Governor that the solution of this difficulty can only depend on the actual facts in each case. It is not desirable that these Deputy Collectors should be employed on judicial duties: so far His Henour accepts Mr. Westmacott's position: but if in point of fact a special excise officer's time is not fully employed on excise in any district, it is the duty of the Excise Commissioner to raise no objection to his being employed on general miscellaneous and revenue work so long as excise is not neglected. The pressure of the general administration in all districts is now so great that it is imperatively necessary to insist on the utilisation of all Deputy Collectors and Magistrates to the utmost of their power. Where the whole time of an Excise Deputy Collector is employed for the whole year on excise work, there is nothing left to be said; but where he is not so employed, his services must be fully utilised in the district where he serves. The Lieutenant-Governor is confident that the highest consideration will always be given by the Board to the views of the Excise Commissioner in regard to the requirements of particular districts; but at the same time the Board, who are responsible for the administration of the revenue in all departments, are obviously in a better position than the Excise Commissioner can be to decide when there is any difference of opinion with the local authorities on questions of fact, and it must be left therefore for the Board to advise the Government in all cases in which they consider that the present practice of the exclusive employment of the Special Deputy Collectors on special work should be relaxed. The question of budget provision appears to be sufficiently met by the reply that, although the whole salary of these Special Deputy Collectors is met from Excise, it is also true that the whole salary of Deputy Collectors

3. In other respects the Department of Excise has been materially strengthened during the year. The Board observe:—

whose time is only partially devoted to excise duties is wholly paid from

"The dual appointments of Assessor-Inspectors employed partly on excise and partly on income-tax work have now been abolished, and, as regard excise, a Sub-Inspector has been appointed in the room of each. As vacancies occur in the ranks of Inspectors of Excise, or as these officers are otherwise provided for, they are being replaced by Sub-Inspectors receiving from Rs. 50 to Rs. 70 per mensem. By these means a larger number of Sub-Inspectors can be employed, while at the same time it is found that the duties of detection,

prevention, and inspection of retail shops and outstills can be as well performed by Sub-Inspectors as by Inspectors."

The Lieutenant-Governor is glad to notice that Mr. Westmacott writes in very satisfactory terms of the improvement in the work done by the new class of officers (who are men of some education and of better position than the old officials) in comparison with the darogahs and excise mohurirs whom they have replaced.

4. The financial results of the administration of the department during the year show a decrease in the revenue of Rs. 4,15,547 and an increase in the charges of Rs. 44,974, leaving a decrease of Rs. 4,60,521 in the net revenue. The statement of charges wrongly omits the salary of the Excise Commissioner and his establishment. If these are added, the increase, as the Board point out, becomes Rs. 85,000 in round numbers, and the percentage of charges on revenue is raised to five per cent. The decrease in revenue occurred in all divisions except Rajshahye and Chota Nagpore. The figures for each division compared with those of 1888-89 are shown below:—

Divisions.		1888-89.	1889-90.	Increase.	Decrease.
North To Commission		Rs.	Rs.	Rs.	Rs.
Burdwan	Term .	11,69,671	11,26,936		42,735
Presidency		29,72,143	29,02,896		69,247
Rajshahye		7,50,612	7,83,233	32,621	
Dacca		8,03,582	7,76,974	*****	26,608
Chittagong		2,87,896	2,27,259		60,637
Patna -		26,14,265	23,76,193	*****	2,38,072
Bhagulpore	***	11,98,293	11,76,995		21,298
Orissa		5,22,438	5,04,908	17	17 530
Chota Nagpore	4.11	5,70,173	5,98,032	27,859	

5. The fluctuations in the total collections under the different heads of revenue are shown in the following table:—

ARTICLES OF EXCISE.		REVENUE.			In 1889-90 COMPARED WITH 1888-89.		IN 1889-90 COMPARED WITH 1884-89.			
		41	731	Average of 1884—89.	In 1888-89.	In 1889-90.	Increase.	Decrease.	Increase.	Decrease
				Rs.	Rs.	Rs.	Rs.	Rs.	Bs.	Rs.
ountry spirits kum mported liquors lari achwai haras siddi, sabzi or bhane majum Madak habdu spirits used for arts lania boum Miscellaneous			11.11.11.11.11.11	49.37, 075 89, 182 9, 22, 189 7, 07, 780 1, 50, 787 2, 133 38, 222 2, 269 86, 482 32, 643 21, 16, 030 19, 29, 455 19, 29, 455	50,90,315 72,851 2,21,453 7,88,901 2,15,191 2,755 42,671 2,092 85,758 36,254 119 23,18,358 20,08,134	47.07,132 1,00,675 2,14,090 8,26,314 2,32,682 3,141 2,067 82,825 35,216 143 22,50,690 19,53,498	27,824 37,413 17,491 780 470 24	3,83,183 7,363 25 2,928 1,438 55,663 48,648	11,498 1,18,534 51,995 1,402 4,919 2,578 1,435,600 30,131 632	2,29,943 8,699 202 3,667
		Total	-12	1,03,50,351	1,08,88,973	1,04,73,426	86,301	5,01,848	3,65,079	2,42,004

The population being taken at 66,700,000, the total excise revenue, exclusive of the customs duty on imported liquors, was at the rate of $2\frac{9}{5}$ annas per head.

6. The statement of charges in the Excise Department amounts to Rs. 4,77,739 (excluding the cost of the Excise Commissioner and his establishment) against Rs. 4,32,765 in the previous year. The increase occurred chiefly under the heads of establishment and petty constructions connected with the gradual re-introduction of the distillery system.

7. The settlements for the current year show a decrease of Rs. 1,32,270

as compared with those of the year under review.

This result is attributable in the Burdwan and Dacca Divisions to the abolition of outstills, and the loss will be recouped in a large measure in stillhead duty. Elsewhere it is due to combination among the abkars and to the prevailing scarcity and high price of food.

8. The figures given in the margin show in an abstract form the results of

Country spirits.

	225			Average of 1884—89.	1888-59.	1889-90.
Under the Sude		Distill	ery	3/11/20		
Number of shops	***		***	599	576	. 652
Consumption				Gallons. 891,993	Gallons. 1,057,119	Gallons, 853,259
License fees Distiliery fees Stillnead duty	***			Rs. 5,11,062 52,431 12,10,678	Rs. 5,40,669 70,108 13,44,977	Rs. 5,76,512 55,009 13,00,686
				17,74,071	19,55,754	19,82,207
Under the out	atill	ayster	n.			
Number of shops	400	***	***	3,633	8,437	2,957
Liconse foes				Ra. 31,63,004	Rs. 31,34,561	Rs. 27,7+,925
Total receipts und	er bo	th sys	tems	49,37,075	50,90,315	47,07,132

the working of the outstill and sudder distilleries during the past two years. In 1887-88 the revenue was Rs. 52,05,042, in 1888-89 it was Rs. 50,90,315: it has now fallen in the past year to Rs. 47,07,132. There is a large decrease, therefore, of Rs. 3,83,183, of which Rs. 2,19,603 occurred in the Patna Division alone. The Board observe: "Generally speaking the decrease in revenue under this head may be attributed partly to the reduction in the number of outstills, partly to resistance on the part of the abkars to the excise policy of increasing taxation, partly to the falling off in advance collections

owing to the introduction of the distillery system, and in no small degree to

agricultural scarcity."

9. The year was an eventful one in the history of Bengal excise. Upon the 1st April 1889 outstills were abolished through-Re-introduction of central distilout the whole of the district of the 24-Pergunnahs, as well as in Howrah and the Serampore sub-division of Hooghly. This change has resulted in a decrease of revenue, and, what is more important to observe, a decrease in consumption also. The revenue from country spirits throughout the whole of the metropolitan area affected, including Calcutta, fell from Rs. 14,19,384 to Rs. 13,32,888. The consumption of liquor throughout the same area decreased from 275,842 to 228,925 gallons. In the area previously supplied from outstills the consumption fell from 50,913 gallons, as shown in the outstill accounts, to 13,079 gallons issued from the central distilleries. These calculations are in gross gallons in each case, and although the central distillery liquor in Calcutta is of high alcoholic strength, while the outstill spirit was exceedingly weak, there can be no doubt that there has been in this area a satisfactory reduction in the consumption of country spirits. The retail price was more than doubled. Per contra there was an increase in the consumption

of country rum.

10. From the 1st April 1890 outstills have been abolished throughout the whole of the Burdwan, Presidency, Dacca, and Orissa Divisions. The Lieutenant-Governor is glad to acknowledge the loyal co-operation of Mr. Westmacott in giving effect to the wishes of Government for the re-introduction of the distillery system in this large area. It is unfortunate that both this reform and that of raising the price of outstill liquor in order to equalise the estimated duty on it with that of distillery liquor, should have had to be introduced in a season of general high prices, which form a disturbing element and obscure for the present the real effects of the measure. How important the effect of high prices has been may be gathered from the falling off of consumption in distillery liquor in Patna, where there has been no other cause to account for the diminution. Both the Board and Mr. Westmacott are of opinion that in certain parts of Western Bengal, where these reforms have been introduced, the facilities for obtaining a cheap illicit supply of liquor are so great that it would have been advisable to retain outstills at least for the present, and in the same connection the Board record the significant observation that they "trust that the measures already adopted for re-introducing the central distillery system may be regarded as an experiment which requires watching before it is extended." Upon this question the Lieutenant-Governor can say little more than emphatically repeat what he has already declared on more than one occasion, that "it must be distinctly understood by the Excise Commissioner, and by all officers concerned with the administration of excise in Bengal, that the policy which has received the approval of the Secretary of State and of Government is that the outstill system should be replaced by a central distillery system whenever circumstances render it

expedient; and, speaking generally, the only circumstances which render the change inexpedient are sparse population, difficulties of supervision, proximity to alien territory, and a liquor which will bear neither transportation nor keeping." This enunciation of policy has been approved by the Secretary of State. On the other hand, it has been declared under equal authority that "it is not intended that outstills should be suppressed in localities where experience shows that distilleries cannot be advantageously introduced." It is on these lines that the action of Government has been based. The Secretary of State expressed a hope, in his despatch dated 18th July 1889, to the Government of India, that the rates of excise revenue raised under the outstill system in Bengal might be reduced from 61 per cent. to some such rate as that which obtained in Madras and the North-West Provinces at any rate, if not to that obtaining in Bombay. The percentage of outstill revenue to total

Bengal ... 61 per cent.

Madvas ... 15 ,,
Bombay ... 5 ,,
North-Western Provinces and Ondh 16 ,,

revenue from country spirits in the several provinces mentioned during the year 1887-88, which is the period referred to by the Secretary of State, is given in the margin. During the year under

review the proportion in Bengal had slightly decreased to 58 per cent., and during the current year there will be a considerable further reduction. But it will not be possible in Bengal to work up to the low percentage attained in other provinces. One-half of the Bengal revenue from country spirits is derived from the Patna, Bhagulpore, and Chota Nagpore Divisions, where the principal material used for the manufacture is the flower of the mohwa tree, and the spirit so made, as is well known, will not bear transport, and rapidly deteriorates when kept. It is of the weakest possible description, being 80 or 90 per cent. below London-proof. Such spirit must be manufactured near the place where it is consumed; and this, if there were no other objection, is a conclusive reason why a central distillery system cannot be successfully introduced into such tracts of country as the rural parts of Behar and Chota Nagpore. The people are accustomed to this weak liquor, and will only drink it when it is fresh. The number of central distilleries must everywhere be limited. The failure of the old system of distilleries was largely due to their excessive number and to the consequent impossibility of exercising proper supervision over them. It has now been deemed advisable to have central distilleries only at the headquarters of districts where they can be thoroughly watched by responsible officers. At the same time arrangements have been made for the establishment of depôts or warehouses at all sub-divisional head-quarters, from which shops remote from the distilleries can be supplied with liquor. This system, as Mr. West-macott points out, adds greatly in cost of carriage to the price of liquor before it reaches the retail vendors. But it appears to be the only way in which a central distillery system can be worked in Bengal without risk of fraud. It cannot be worked in Behar because, as already explained, the liquor will not keep or bear the transit. The depôts are kept under the eyes of the Assistant or Deputy Collectors in charge of sub-divisions.

11. The total revenue realized under the central distillery system during the past year was Rs. 19,32,207 against Rs. 19,55,754 in the previous year. There was thus a small falling off notwith-

			1888-89.	1889-90.	
			Gross gallons.	Gross gallons.	
Patna			409,408	3,25.643	
Gyn	***	***	105,262	6-,285	
Shahabad	***	***	53.3 4	44,892	
Mozufferpore		1000	21,345	11,765	
Durbhunga		Control	10,379	8.319	
Sarun	1	The same	91,828	41,765	
Chumparum	***	***	8,980	6,587	
To	tal	TO THE	700,546	567,556	

year. There was thus a small falling off notwithstanding the extension of the distillery area. The statistics of consumption show, however, a large decline from 10,57,119 gallons in 1888-89 to 8,53,259 gallons in 1889-90. The decrease was almost entirely in the Patna Division, of which the figures, district by district, are given in the margin. As both the system and the distillery area in these districts remained unchanged, there can be no explanation of this decrease other than that the year was one of general depression and bad trade.

The figures are unaffected by any action of the Excise Department.

12. The total revenue derived from outstill license fees decreased from Rs. 31,34,561 to Rs. 27,74,925. Great attention has been paid to limitation of capacity of stills and fermenting vessels. In the districts of the Chittagong Division the capacity of stills has, with regard to local considerations, not been reduced. For the rest

of the province in which outstills still exist, that is to say, in the Patna, Bhagulpore, Chota Nagpore and Rajshahye Divisions, the following figures will show the number and aggregate capacity of the outstills allowed during the past five years:—

		ou	of outstills in gallons,	
Open in 1886-87	landing.		2,409	76,230
" in 1887-88		***	2,410	53,632
" in 1888-89	200	1000	2,359	45,874
" in 1889-90			2,141	38,147
Sanctioned for 1890-91	1300		-1,798	30,492

The number of outstills is being reduced wherever they appear to be more numerous than is necessary to satisfy the local demand for liquor; and as the fees are being gradually raised so as to force the retail price up to the price fixed by the distillery rate of duty for each district, the abkars in many cases refuse to accept settlement. The changes involve an increase in the retail price of liquor which is stubbornly resisted. In the Lieutenant-Governor's opinion, Mr. Westmacott deserves credit for the firm attitude he Governor's opinion, Mr. Westmacott described for outstills, and he entirely has maintained in adhering to the high fees fixed for outstills, and he entirely assign of the Board in supporting this policy. The experiment must be allowed a full and fair trial: it was always anticipated that it would entail an immediate loss of revenue, and the deliberate intention throughout has been to force the abkars to increase their retail prices and so reduce consumption. If this result is attained, a temporary loss of revenue is comparatively a small matter, and unless the demand for liquor has been artificially stimulated by an undue cheapening of outstill liquor (as compared with the price maintained by distillery spirit), it is certain that the normal demand will re-assert itself and the revenues will recover. Sir Steuart Bayley has no doubt that the policy is a sound one. It must be introduced gradually and with discretion, and there should, in his opinion, be no going back from it, though the effects of bad seasons render its influence on the revenue more conspicuous than it would otherwise have been. The consumption of outstill liquor has materially decreased in the 16 districts of Bengal where what is known as the Patna system prevails, and outstills and central distilleries are allowed in the same district. The figures are obtained by the district officers from the abkars, and cannot be altogether relied on as accurate; but the errors of a particular year are balanced by the errors of another, and for purposes of comparison the result is one which may be generally accepted. The figures are in London-proof gallons, and show a decreasing consumption during the past three years as follows:-

		Water of the same		Travel a unit	Gallons.
1887-88		0.00	***		1,396,537
1888-89		***		J	1,188,123
1889-90	***		Sec. 1		755,553

Rs. 1897-88 ... 18,61,727 1888-89 ... 18,06,366 1889-90 ... 15,91,178 The outstill revenue from these districts also shows a decrease as noted in the margin, but the preportion of the decrease in revenue is much less than that of the decrease in consumption.

14. During the course of the year special rules were issued by Government and published for general guidance on the subject of the selection of sites for excise shops.

Distinct instructions have been given to the licensing officers to ascertain and consider local opinion, and it has been ordered that where municipalities exist the Municipal Commissioners should be consulted in determining the location of shops. The procedure prescribed is one of old standing in these provinces; but it has now for the first time been promulgated in the form of rules. It is reported that there has been some loss of trade and consequent loss of revenue from fees on account of the more careful observance of the principles now enforced. The question of the location of shops in the vicinity of tea-gardens is one of special difficulty and importance. Under the orders of the Secretary of State a most careful and exhaustive enquiry was made into the facts connected with the excise administration in the tea districts in Bengal. The papers then submitted afford conclusive evidence of conscientious and successful endeavours to organize the department in

accordance with the recognized principles on which a proper excise policy must rest. It was shown that the coolie population had enormously increased owing to the establishment of new gardens, that the coolies all belonged to tribes who habitually consume spirituous liquor, and that the increase in drinking was certainly not more than commensurate with the increase in number of the drinking classes. The tea districts are surrounded by foreign territory, and foreign outstills pour their contraband liquor across the British frontier at half or even a quarter the price at which it is obtainable from the licensed shops. In such cases it is probably true that from want of licensed facilities for obtaining liquor there has been a great deal of illicit manufacture and smuggling. At the same time it is obvious that unnecessary shops must not be retained. It is drunkenness which the Government desires to put down rather than the moderate use of liquor. If shops are too far off from a tea garden, it is probable that the coolies will get drunk on every occasion of a visit. The problem is to place them not too near and not too far off, and especially (as Mr. Westmacott has pointed out) not in such a position as to suggest drinking to anybody. In deference to the objection of certain tea associations, the selection of sites recommended by the local authorities has in some cases been abandoned, and special arrangements have been sanctioned to prevent the importation of smuggled liquor.

15. The revenue from country rum has fluctuated in recent years, as the following figures will show:—

						Rs.
1885-86	多数工程	70 - 10 - 10 10			***	77,091
1886-87						1,08,111
1887-88				101		88,885
1888-89		•••	***			72,851
1889-90					3.64	1,00,675

The increase in the past year is principally due to the reduction in the rate of duty from Rs. 5 to Rs. 4 per gallon London-proof. At first this led to a falling off in the receipts, but afterwards it resulted in a largely increased consumption which, with a diminished duty, gave an increased revenue. The consumption increased from 24,318 gallons to 44,535 gallons, entirely in the metropolitan area. Of this increase no less than 13,620 gallons is due to rum consigned from Shahjehanpore. The total of Shahjehanpore rum consumed in Bengal during the year is 28,770 gallons, and the duty on this being credited locally is not shown in the Bengal excise accounts. The revenue derived from license fees for selling imported spirits and wines has again fallen from Rs. 2,21,453 to Rs. 2,14,090. Under tari the revenue has risen from Rs. 7,88,901 to Rs. 8,26,314. The revenue derived from licenses for the sale of puchwai increased from Rs. 2,15,191 to Rs. 2,32,682.

6anja. 16. The statistics of ganja during the past three years are as follows:—

		Nı	umber of shops.	Mds.	Revenue. Rs.
1887-88	1, 11, 12, 13 and		2,949	6,550	22,45,020
1888-89	- 1 74 a	SALT	2,922	6,413	23,18,353
1889-90	•••		2,819	6,101	22,59,690

The decrease in consumption is satisfactory, and although there is during the past year a small decrease also in revenue, it is to be observed that the receipts are greater than those of 1887-88 and of all previous years. The report on the subject of Gurjat ganja, to which allusion is made by the Board and the Excise Commissioner, is awaited by Government.

17. The consumption of abkari opium decreased from 1,925 to 1,905

opium. maunds, and the revenue from Rs. 20,08,134 to
Rs. 19,59,486. The largest decrease occurred in
the Chittagong district, and is attributed to the more successful prevention of
smuggling into Arracan. The Excise Commissioner enumerates several important cases of opium-smuggling detected during the year.

18. The number of arrests for offences against the excise laws was 4,441 against 3,879 in the previous year, and the number of convictions 3,747 against 3,324. There was a

decided improvement in the work of the excise officers, but a falling off in the

number of convictions obtained by the police.

19. The acknowledgments of the Lieutenant-Governor are due to Mr. Westmacott for the zeal with which he has administered this important department, and the thoroughly loyal manner in which he has given effect to the policy of Government. His administration has been successful in reducing the consumption of spirits and drugs, and there can be no doubt that the results would have been more favourable from a revenue point of view if they had not been affected by the prevailing agricultural depression. The names of the officers selected by him for special mention for the excellence of their excise administration will be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE REPORT FROM THE BOARD OF REVENUE ON THE ROAD AND PUBLIC WORKS CESS OPERATIONS FOR THE CESS YEAR 1889-90.

FINANCIAL DEPARTMENT-ROAD CESS.

Darjeeling the 29th September 1890.

RESOLUTION.

READ-

The Report from the Board of Revenue on the Road and Public Works cess operations for the cess year 1889-90.

During the year under review the cesses continued to be levied at the maximum rates in all the districts in which Act IX (B.C.) of 1880 is in force, except Backergunge, where the Public Works cess was levied at full rates and the Road cess at half rates The current demand for the year amounted to—

THE ZEAR HER LAND		St. St. Billion Br.	Rs.
Road Cess	 all table to the		37,81,538
Public Works Cess	 •••	•••	38,79,001
	Total		76,60,539

2. In the subjoined table the figures for the past year are compared with those of the two preceding years:—

	DEMAND.						Percentage
	Current.	Arrear	Total.	Collections. Remissions,	Remissions.	Balances.	of balance on gross demand.
1887-88	Rs. 76,13,146	Rs. 16.61.553	Rs. 92.74,699	Rs. 75.35.113	Rs. 16.498	Rs. 16,98,409	
1888-89 1889-90	76,19,896 76,60,539	17,20,662 18,04,134	93,40,558 94,64,673	74,86,777 77,54,684	20,925 76,885	17,98.912 16,68,728	18 3 19 2 17 5

The percentage of arrear collections on arrear demand was 76.8, that of current collections on current demand was 82.2, and that of total collections on current demand was 101.2. With a larger demand the collections have been larger, and the balances have been reduced. The item of remissions, however shows a large increase, which is due to a sum of Rs. 65,896 having been written off in Burdwan as irrecoverable arrears of petty rent-free holdings.

3. In the following districts the arrear collections fell short of 90 per cent.:-

			Percentage of arrear collections on arrear demand.	Percentage of current collections on current demand.
Shahabad -			40.7	85.9
Burdwan		Tul.	43.4	83.7
Furreedpore	•••		46.6	66.4
Bankoora		40.5	47.2	81.
Khoolna			65.	81.2
Moorshedabad		100	71.8	92.5
Gya			73.8	74.1
70 00			74.6	61.7
Jessore			75.4	74.9
Hooghly			77.1	66.3
Bhagulpore	***		80.	88-4
Cuttack			80.5	90.
24-Pergunnal			82-8	80.4
Durbhunga			83.4	86
Pooree			00.	97.6
Sarun		1	90.7	72.8
Patna	103		89.3	75.7
		Charles In		None and the second second

The districts of Furreedpore, Gya, Mozufferpore, Jessore, and Hooghly show short collections of both current and arrear demands. The indifferent results in Furreedpore are primarily attributable to the confused state of the revenue-roll which facilitated the frauds noticed in last year's report. In Gya the short collections are said to be due to the postponement of the date of new assessment from the 1st April 1889 to the 1st April 1890, and to the adoption of the tehsildari system under section 99 of Act IX (B.C.) of 1880 in preference to the certificate procedure. The unfavourable results in Shahabad are ascribed to the lax system of realizing arrears. The Collector should adopt, as suggested by the Board, stringent measures to reduce the increasing balance. A large arrear balance has become chronic in Burdwan since the assessment of its rent-free tenures. Measures have not been adopted to remedy the defective system of keeping accounts which hitherto retarded the collections, and the realizations during 1889-90, though far from satisfactory, show an improvement on the percentage of previous years. In Bankoora heavy defaults were made as usual by the sardar ghatwals, and to prevent this the assessment of the ghatwali lands is being revised. The short percentage of arrear collections in Khoolna and Moorshedabad is attributed to the accumulation of the arrears of three years to be recovered from rent-free holdings under section 70 of the Cess Act.

4. In the following districts, though the arrear collections were not less than 90 per cent., the current collections fell below that amount:—

				Percentage of current collections on current demand.	Percentage of arrear collections on arrear demand.
Chumparun				68.	99.8
Lohardugga		AND THE REAL PROPERTY.		72.2	96.9
Monghyr				73.9	90.5
Dacca	2.10		1	78.3	90.
Midnapore			2	79 1	90.
Pubna				80.8	93 5
Rajshahve	103			81.8	98.5
Dinagepore				81.9	99.8
Backergunge				82.	94.3
Maldah		1		87.3	99.8
Balasore				88.1	95.
Tipperah			***	89.3	95.9
Manbhoom	3.00			89.8	99.6

In Chumparun, Lohardugga, and Monghyr the short current collections are ascribed to the 15 days' grace allowed for payments, and in Dacca to the difficulty of realizing the dues from holders of petty estates. In Midnapore the cesses due from some large zemindaries were not paid until the last coercive measures under the Public Demands Recovery Act had been resorted to.

5. Arrears to the extent of Rs. 1,06,435 have become barred by limitation. The total amount barred in Burdwan was calculated to be Rs. 1,63,267, out of which Rs. 65,896 were remitted during the year, and there still remain

Rs. 97,371 which will be written off as soon as pending objections to the original assessment have been disposed of.

6. The collections on both the current and arrear demand exceeded 90

per cent. in 11 districts-

			Percentage of arrear collections on arrear demand.	Percentage of current collections on current demand.
Hazaribagh			. 100⋅	97:1
P11 2.1		12	100.	99.9
Bogra			90.8	93.5
Purneah			. 99.2	95.6
Nuddea			98.2	92.1
Noakhally	***	The Control	08.	94
Beerbhoom			97.5	91.3
Julpigoree			05.7	93.2
Mymensingl	1		94.7	92.5
Rungpore			93.9	90.6
Chittagong			92.3	92.9

Darjeeling had no arrears to collect, and realized its current demand in full. In these 12 districts the results are satisfactory and reflect credit on the officers concerned.

7. The number of certificates filed for the recovery of arrears was 71,076, which, with the 35,260 pending on the 31st March 1889, gave a total of 106,336 for disposal. Of these, 73,115 were disposed of, leaving 33,221 pending at the end of March 1890. The outturn of work compares favourably with that of the previous year. Sales actually took place in only 583 cases, of which 54 were subsequently cancelled. The number of institutions was smallest (428) in the Chota Nagpore Division and largest in the Burdwan, Patna, and Presidency Divisions—20,018, 14,560, and 10,921 respectively. In Gya and Mozufferpore the certificate procedure was set aside in favour of the tehsildari system under section 99 of the Cess Act, with the result that collections fell off. As remarked by the Commissioner, more active measures should have been taken, or certificates should have been filed to realize the Government dues.

8. Complete revaluations of the district of Shahabad, resulting in an increase of Rs. 1,05,477 in the annual demand, and of Gya, resulting in an increase of Rs. 50,423, were brought to a close during the year. Partial valuations and revaluations were completed in the Khulna, Backergunge, Mymensingh, Maldah Bogra and Tipperah districts.

Maldah, Bogra and Tipperah districts.
9. The names of the Deputy Collectors who have been favourably

9. The names of the Deputy Collectors who have been favourably noticed by the Board will be communicated to the Appointment Department.

Ordered that a copy of the Resolution and of the Board's report be submitted to the Government of India, Finance and Commerce Department, for information.

Ordered also that a copy of the Resolution be forwarded to the Board of Revenue, and that copies of the Resolution, and of the Board's report, be forwarded to the Appointment and Revenue Departments for information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE CUSTOMS DEPARTMENT FOR THE YEAR 1889-90.

FINANCIAL DEPARTMENT-CUSTOMS.

Darjeeling, the 29th September 1890.

RESOLUTION.

READ-

The Report on the Administration of the Customs Department for the year 1889-90.

The following statement shows the gross and net customs duty, inclusive of the duty on imported salt, collected in Bengal during the last five years:—

The Late of Street	1885-86.	1587-57.	1887-88.	1888-89.	1889-90.
	Ks.	Rs.	ks.	1, 8.	Rs.
Import duty (excluding duty on salt) Import duty on salt Export duty	13,99.392 1,80.35,151	15,05,764 1,94,85,102 15,80,840 *	14,56 057 1,85,30,955 21,87,245	21,61,242 2,27,28,687 17,09,406	24,45,683 2,25,83,827 16,08,445
Total gross duty	2,12,45,167	2,25,71.206	2.21,54,260	2,65,99,385	2,66,37,955
Refunds and drawbacks— Imports Exports	2,29,064 62,202	2,48,992 40,363	2,46,759 81,742	2,81,544 84,930	3,12,697 31,606
Total	2,91,266	2,89,355	3,28.501	3,66,474	3,44,303
Total net duty	2,09,53,901	2,22,81,851	2,18,25,759	2,62,32,851	2,62,93,652
The state of the s		THE PARTY OF STREET		With Colors to make I	Situate Service

Since the year 1882-83, when the reduction of salt duty and the remission of all import duties, except those leviable on arms, ammunition, liquors and opium, came into operation, there have been considerable fluctuations in the revenue, but the increase in 1888-89 was maintained in the year under review. This is entirely due to the levy of a duty of 6 pies per gallon on mineral oil, the importation of which continues to expand in a remarkable manner, thus amply justifying its selection as a suitable article for taxation. Import duties levied on other articles than petroleum, such as wine and spirits, show a general falling off. The decrease in export duty is due to a falling off in the rice trade.

2. There was a fall in the value of imports (exclusive of Government transactions) from Rs. 32,51,37,468 to Rs. 31,56,52,561, principally in piece-goods. The export foreign trade, exclusive of treasure, shows an advance from Rs. 37,82,25,789 to Rs. 39,67,26,895, which is due chiefly to the high prices obtained for rice, jute, linseed, and raw silk. Taking exports and imports together, the total value of the trade of the Province increased by nearly a crore of rupees, or from Rs. 78,17,13,654 to Rs. 79,12,31,540.

Rs. 78,17,13,654 to Rs. 79,12,31,540.

3. The value of imports on Government account declined from 100 lakhs to 97½ lakhs, and was noticeable under almost every head. There was, however, a marked increase of 17½ lakhs in the value of materials required for State Railways. The exports made on Government account amounted to only 2¾ lakhs, against 4 lakhs in the preceding year, and consisted mostly of copper coin for Ceylon and the Straits Settlements.

4. As usual, the bulk of the trade is carried on by the United Kingdom, the proportion of the trade absorbed by that country being no less than 61.71 per cent of the whole trade of Bengal. This percentage is, however, less than that of the preceding ten years. The second place is occupied by China, due to opium transactions (10.1 per cent.), and next stands the United States (6.47 per cent.). The trade with Germany continues to show a considerable increase.

5. The proportion of the foreign trade of Calcutta carried through the

Suez Canal to the total foreign trade of Calcutta

declined from 65.8 per cent. in 1888-89 to 63.7 per

Foreign trade. cent. in the year under review. The decrease
is attributed to the falling off in the value of cotton manufactures imported
from the United Kingdom. The following statement compares the imports
and exports through the Canal during the last five years:—

	Imports.	Exports.	Total.
	Rs.	Rs.	Rs
1885-86	 18,25,69,465	16,02,59,864	34,28,29,329
1886-87	 21,49,95,033	17,28,69,556	38,78,64,589
1887-88	 20,52,71,237	18,17,29,261	38,70,00,498
1888-89	 23,45,06,444	18,51,90,952	41,96,97,396
1889-90	 21,80,03,096	19,24,35,956	41,04,39,052

6. The number of steam vessels which passed through the Suez Canal on their way to and from Calcutta without touching at another British Indian port decreased from 305 to 294, and the tonnage from 604,094 to 586,199 tons. The total number of arrivals and departures from foreign countries is given in the following statement:—

		1	1888-89.	1889-90.	
Steam vessels		No. 489	Tonnage. 899,667	No. 521	Tonnage. 961,104
Sailing "		603	877,853	554	824,724
Native craft		49	6,045	42	6,111

It must be understood that these figures do not include all vessels engaged in the Foreign trade of Calcutta, but only those which arrive here and leave the port without touching at any other Indian port.

The total value of imports shows a decrease of Rs. 59,34,038 as compared with that of the previous year. The value of cotton manufactures declined by Rs. 142 lakhs, machinery 12½ lakhs, silk 9½ lakhs, umbrellas 8½ lakhs, horses 4½ lakhs, liquors 3½ lakhs, drugs 2½ lakhs, fruits and unrefined sugar each 2 lakhs. On the other hand, the import of metals shows an advance of 81 lakhs, oils 34½ lakhs, refined sugar 13½ lakhs, spices and railway plant and rolling-stock each 7½ lakhs, woollen manufactures 3½ lakhs, and matches 3½ lakhs.

7. The statement below shows the values of the principal articles imported into Calcutta during the last two years:—

		SECTION OF THE	1888-89,	1889-90.
			Rs.	Rs.
Cotton goods	1	Shirt.	14,54,76,859	13,12,43,435
Metals	C 1994 1 27	***	1,65,31,166	2,46,68,410
Oils		****	85,07,955	1,18,08,390
Machinery	***	***	86,30,301	74,07,618
Salt	***	***	76,35,910	73,38,054
Woollen goods	***		66,41,405	70,11,664
Liquors		***	52,39,340	49,00,323
Apparel		EN INCH	40,35,825	41,33,901

The trade in cotton piece-goods was not remunerative: large stocks were in hand, while at the close of the year money was scarce and the Bank rate of interest very high. It is reported that the trade of native houses continues to expand, and was larger than in any previous year. The very large increase in the import of metals is due to the trade righting itself after the collapse of the Copper Syndicate. The increase in petroleum oil is entirely from the United States, and there was a decrease both from the United Kingdom and from Russia. Although there is a decrease in machinery, the figures of the year are far in excess of those in any year previous to 1888-89. Under the head of Liquors there is an increase in ale, beer and porter, a large decrease under Spirits, and a very small decrease under Wines and Liqueurs. Regarding the importation of spirits, Mr. Scobell Armstrong, the Collector of Customs, observes:—

"Brandy has declined by 13½ per cent., which, considering the nature of much of the liquor imported under this name, is not surprising. A considerable portion of it has very little resemblance to brandy, except perhaps in colour. It is the commonest German spirit got up to look like brandy and comes chiefly from Humburg and Antwerp, and the average

declared value is from Rs. 2-8 to Rs. 3 per imperial gallon. The best brandies come in bottle through the United Kingdom.

"Gin has again declined, and the taste for it seems to be steadily falling off.
"The imports of whisky show a very slight advance in quantity with a considerable decline in value, and there was no accumulation of stocks in bond. The quality of the established marks and brands continues the same, for it would not pay to tamper with them, and so risk the loss of the trade; but with the commonest sorts of whisky, as of brandy, the tendency in quality is downwards. A quantity of it is inferior German spirit made from anything but malt, I believe principally from rice, and coloured and flavoured to represent whisky. Nearly the whole of the whisky imported came from or through the United Kingdom, but there have been some importations of high class whisky from Australia.

"Rum, which was formerly an item of importance, has fallen away to insignificant figures, being only 910 gallons in the past year, against 9,047 gallons in 1888-89. China formerly sent the largest quantity of this spirit to Calcutta, but last year none at all was received from that country. The cheap common spirit from Germany has apparently killed this trade."

Among minor items it may be observed that the trade in umbrellas has declined owing to accumulation of stock. The value of matches imported now amounts to Rs. 7,39,000, and the quantity is estimated by Mr. Armstrong to be about 152 millions of boxes. Most of these are manufactured in Sweden and Norway, and the wholesale value is about Rs. 35 per case of 50 gross. With this low price the matches of Bryant and May, which are of a more substantial nature, cannot compete.

8. The following statement gives the value of the principal articles of Indian produce and manufacture exported in 1888-89 and 1889-90:— Charles &

		Section 1	1888-89.	1889-90.
			Rs.	Rs.
Raw jute		***	6,94,28,984	7,26,67,026
Opium			6,41,48,256	6,37,25,170
Tea		•••	5,16,52,620	5,12,39,079
Oilseeds	100	CEL	3,57,89,078	4,13,04,984
Indigo			2,73,46,873	2,49,05,266
Gunny-bags			2,33,35,337	2,31,92,559
Rice			2,07,02,266	2,48,74,668
Hides and skins		***	1,90.82,457	1,84,21,934
Wheat		•••	1,08,24,635	60,11,810

There was a slight falling off in the export of jute, although prices ruled higher than in the previous year, but the deficiency of Calcutta was more than supplied by the shipments from Chittagong, which increased to the extent of 222,846 cwts. The export of tea declined slightly in value, but advanced in quantity, being 101,750,725fbs. in 1889-90, against 95,749,163fbs. in 1888-89. The cost per pound last year was 8 annas 1 pie, against 8 annas 6 pies in the previous year. The following table shows the production of tea in the different districts during the last two years: -

建设设施的 医医检验性原因 医电影的现在分词		1888.	1889.
		lbs.	tbs.
Assam		41,865,499	42,030,564
Cachar and Sylhet		27,343,505	29,750,054
Darjeeling, Terai, and Dooars		18,950,822	20,497,857
Chittagong and Chota Nagpore		1,148,458	1,378,920
Dehra Dun, Kumaon, and Kangra	1	4,000,000	4,500,000
Private and native gardens		3,000,000	4,500,000
Total	1	96,308,284	102,657,395
		STATE OF THE RESIDENCE OF THE PARTY OF THE P	AND RESIDENCE OF THE PARTY OF T

The estimated outturn for the current year is no less than 115,000,000tbs. The importations of tea into the United Kingdom during the last two years are-

			1888.	1889.
		STATE STATE	Ibs.	lbs.
Indian			92,387,000	96,693,000
Ceylon	1		20,325,000	31,191,000
China, &c.		***	109,285,000	93,208,000

It cannot be said that any material progress has been made in opening out new markets for Indian tea. Australia is the only country where Indian tea is being rapidly taken; the increase last year was over half a million pounds, or 181 per cent. In America the export is falling off, and China tea still finds favour in Russia. In India itself the efforts to popularise tea have hitherto failed.

Although the value of rice exported last year shows an increase, the quantity was less owing to a shorter crop. Ceylon continues to hold its first place as the consumer of Bengal rice, and the United Kingdom stands next.

There was a further large fall in the export of wheat, from nearly 3 million cwt. to a little over 12 millions. The continent of Europe has received nearly the whole of its Indian wheat from the Western side of India. total quantity of Indian wheat sent to the United Kingdom was 9,217,332 cwt., while Russia exported 21,321,628 cwt, and the United States 17,061,250 cwt.

There was a small increase in the quantity of indigo exported, but the average declared value was the lowest ever recorded in the Custom House.

The trade in raw cotton, which had declined in 1888, showed an improvement of about 201 per cent. The increase was entirely in the export to continental countries.

9. The import of treasure during the last year decreased by Rs. 31,38,497, but while silver declined by nearly 50 lakhs, the import of gold advanced by 18½ lakhs.

10. The value of the coasting or interportal trade with Calcutta declined in 1889-90 by about 52 lakhs, and is observable Coasting trade. both in the export and import of Indian produce

and of foreign merchandise.

11. The value of the trade of Chittagong, which had fallen off during 1888-89, greatly augmented during the year under Chittagong port. review, and amounted to Rs. 3,16,96,703, which is the highest on record. The enormous expansion of the trade in raw jute has materially contributed to the prosperity of this port.

12. The following table shows the trade of the Orissa ports for the past year as compared with that of the previous The Orissa ports.

year :-

	my and the	BAL	ASORE,	Cu	TTACK.	Poorek,			
no a seculit		1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.		
Foreign Coasting		Rs. 1,32,209 95,35,286	Rs. 4,37,513 93,03,035	Rs. 8,23,691 1,68,554	Rs. 13,15,803 4,39,940	Rs. 39,386 20,426	Rs. 39,842 1,76,934		

It will be seen that there has been a considerable increase in the trade of Cuttack and Pooree.

13. Naraingunge was in November 1889 declared to be a Customs port for the shipment and landing of goods and a ware-Naraingunge. housing port. The year was a prosperous one, and the total value of trade was Rs. 1,14,90,150, consisting principally of jute

consigned to Chittagong

14. The Lieutenant-Governor's thanks are due to the Board of Revenue for their supervision of the Customs Department during the year, and in particular to Mr. Armstrong for his full and interesting report and for his efficient administration of the Calcutta Customs Office. The services of the follow ing officers are favourably noticed by the Board:—Messrs. Kilby, Amos, Bonnaud, Bradbury, and Burrup of the Calcutta office, and Mr. Warden, Collector of Customs at Chittagong. Their names, with the remarks recorded, will be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE INCOME-TAX IN BENGAL FOR THE YEAR 1889-90.

FINANCIAL DEPARTMENT.-INCOME-TAX.

Darjeeling, the 30th September 1890.

RESOLUTION.

READ-

The Report of the Board of Revenue on the financial results of the Income-tax Administration for the year 1889-90.

Previous annual reports have shown collections up to the end of the year, and all other operations up to the 30th June. The present report deals only with operations up to the end of March, a change which has enabled the report to be submitted at a much earlier date than was formerly possible. The scheme of amalgamating the posts of Excise Inspector or Sub-Inspector and Excise Assessor continued in operation in 20 districts during the year under review, but has since been discontinued. Service in the Income-tax Department was during the year declared permanent and pensionable, and this step, together with the separation of excise and income-tax establishments, has led to a complete revision of the assessing agency.

2. The total demand for the year under all parts of the Act stood at Rs. 44,89,476 against Rs. 42,41,806 in the previous year, while the total collections, exclusive of advance payments and excess collections, were Rs. 41,44,257 against Rs. 38,88,388. The receipts, charges, and net revenue are compared as follows:—

	Receipts.	Charges.	Percentage of charges,	Net revenue.
1888-89 1889-90	 Rs. 39,11,616 41,66,798	Rs. 1,56,470 1,66,778	Rs. 4 4	Rs. 37,55,146 40,00,020
Increase	 2,55,182	10,308	<u> </u>	2,44,874

The net revenue shows an increase of 6:1 per cent. against 5 per cent. in the previous year.

3. The amount originally assessed was Rs. 39,38,829, which was reduced to a final demand of Rs. 37,12,130 against Rs. 35,53,678 in 1888-89. By far the larger portion of the increase was as usual contributed by Calcutta, but it was shared by every division except Chittagong and Bhagulpore. The percentage of collection on the final demand was the same as in the previous year, viz., 92.5. In six districts the entire demand was collected within the financial year. The outstanding balance on account of the tax, with penalties and costs, amounts to Rs. 3,45,219, of which Rs. 1,46,143 are reported to be good, Rs. 1,31,162 doubtful, and Rs. 67,914 irrecoverable.

4. There was a falling off of 6,893 in the number of villages visited by the Assessors, the decrease being attributed in many cases to their desire to concentrate their attention on towns and marts, which offer a more fruitful field for enquiry. In Calcutta a marked improvement appears in the number of streets visited by the assessors. The number of persons finally assessed was 102,265 against 102,407, the percentage of exemption on revision being 3·1 against 4·01 in 1888-89.

5. The petitions of objection numbered 15,027 against 16,770 in the previous year. The number of successful objections was 6,361 against 6,934, or 42·3 per cent. against 41·3 per cent. in 1888-89. The percentage was highest in Maldah (60·8), Chittagong (55·2), Calcutta (54·6), Patna (53·7) and Tipperah (52·1).

6. The average incidence of the tax on the whole population of the province (excluding the assessments on salaries of Government servants and on Government securities) was Re. 1 to every 17.9 persons, and excluding Calcutta the average incidence in the districts was Re. 1 to every 36 inhabitants. The proportion of the number of persons assessed to the whole population was 1 to 650. The Board have furnished in their present report some interesting statistics illustrating the proportion of

the tax contributed by Calcutta and the whole of the province under the present Act and under former Income-tax and License-tax Acts. Of the entire amount of the present tax nearly one-half is paid in the metropolis alone. The productiveness of the tax bears a larger proportion in Calcutta under the present Income-tax Act because agricultural incomes are exempted under it and the great bulk of large incomes due to other sources than agriculture is to be found in Calcutta.

7. There has been a steady decline in the number of cases in which coercive measures were necessary for the recovery of the tax. In only 267 cases out of 102,265 assessments was actual sale resorted to. The number of sales was comparatively large in Rungpore (51), Purneah (24) and Singbhoom (21). The percentage of warrants issued has declined from 11.9 in 1886-87 and 6.3 in 1888-89 to 4.6 in 1889-90. In Calcutta distress warrants were issued in only 112 cases against 1,243 in the previous year.

8. The expenditure of the year amounted to Rs. 1,66,778 against Rs. 1,56,470 in the previous year, while the percentage of the cost on the net collections stood at

the same figure as in 1888-89, viz., 4.02.

9. The largest share of tax paid (Rs. 5,73,728) was, as usual, from assessees under class I (incomes from Rs. 500 to Rs. 750); Rs. 5,19,082 were paid by assessees in class XV (Rs. 1,00,000), Rs. 4,84,807 were paid by assessees in class VIII (Rs. 2,500 to Rs. 5,000), and Rs. 4,00,999 by assessees in class IX (Rs. 5,000 to Rs. 10,000). The lowest contribution was from class XIII (Rs. 40,000 to Rs. 50,000). Classified according to trades and professions, the largest contributions to the tax were the following:—

		until ner orthern or i		Rs.		collection.
Class	s 44.	Money-lending and changing		5,72,092	11. 79	14.6
,,	1.	Salaries paid by Government		3,93,059	HE THE	10
"	45.	General merchants		3,63,550	28 11 5	9.3
,,,	69.	Dealers in other articles		1,96,671		5
92	46.	Piece-goods merchants		1,59,973		4.1
"	9.	Clerks paid by companies, &c.	***	1,52,828		3.9
"	85.	Taxable estate-holders	***	1,28,081		3.2
"	35.	Barristers, &c		1,23,254	STATE AND	3.1
22	82.	House proprietors		1,16,050	MAY AN	2.9
22	7.	Managers, &c		1,06,135	- 200	2.7
"	22.	Jute and hemp		1,05,606	11/20	2.7
, ,,	47.	Grain merchants	***	1,04,677	HEALT	2.6

- 10. The Board have little to add to what has been said in previous reports on the subject of popular feeling in regard to the tax. That the tax continues to be unpopular is notorious; but they observe that a larger revenue is annually obtained with less friction and less necessity for having recourse to coercive measures.
- 11. The names of the Deputy Collectors specially reported by the Board as having done good service will be communicated to the Appointment Department. Mr. Kilby, the Collector of Income-tax in Calcutta, administered the tax with marked vigour and success. The careful supervision exercised over this Department by the Board merits the acknowledgments of Government.

Ordered that a copy of this Resolution, together with a copy of the Board's Report, be submitted to the Government of India, Finance and Commerce Department, for information, and that a copy of the Resolution be forwarded to the Board of Revenue.

Ordered also that extract paragraph 11 of the Resolution and extract paragraph 57 of the Report be forwarded to the Appointment Department for information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE CHITTAGONG HILL TRACTS FRONTIER FOR THE YEAR 1889-90.

POLITICAL.

Darjeeling, the 29th September 1890.

READ-

Letter from the Commissioner of Chittagong, No. 855H.T., dated the 15th July 1890, forwarding the Report on the Administration of the Chittagong Hill Tracts Frontier for the year 1889-90.

The operations of the Chin-Lushai Expeditionary Force have been brought to a successful termination. Of the captives taken away in the Chengri Valley and Chima Valley raids, 7 escaped from the hands of the raiders and 75 were recovered by ransom or otherwise. But the expedition dealt with the northern tribes and had no effect on the Shendoos living to the south of Fort Lungleh. Two of their parties entered our territory during the past year while the expedition was in progress. On receipt of information patrols were immediately despatched in search of them. The first party could not be found, but traces of a large encampment said to have been occupied by them were visible in the neighbourhood of the Chanda village. The second party was discovered within 21 miles of the Pyramid Hill post, but they beat a precipitate retreat as soon as they found themselves pursued. There is little doubt that they crossed the border for raiding purposes, which they would have carried out had circumstances favoured them. The complicity of these tribes in some of the raids of previous years, the necessity of securing the release of the persons then taken prisoners by them and still held in captivity, and their general raiding propensities, render it imperative to adopt measures for exercising control over the villages inhabited by them. This question forms the subject of a separate correspondence.

There was also a scare in the Upper Chengri Valley in the month of August, due to a rumour that Lienpunga was preparing for another raid. The Joormorong outpost was re-occupied by the frontier police in consequence,

and confidence was soon restored among the villagers.

2. The military expedition prevented the holding of the annual durbar, but Captain Shakespear, the Assistant Political Officer, held a meeting of the

Mulienpui Chiefs after the close of the year.

3. There was a considerable falling off in the export and import of almost all kinds of articles of trade on the frontier, but this is attributable to the unsettled condition of the country due to the expedition, and the figures of the past year do not, as observed by the Commissioner, afford an indication of the future progress of trade. The trade in salt is already more extensive than before, and the further improvement effected in the communication with the Demagri Bazar will facilitate the sale of other commodities in much larger quantities in future. It is satisfactory to note that during the past year 3,663 persons belonging to the trans-frontier tribes resorted to the Demagri Bazar, against 2,949 in the preceding year. From April to August the attendance was very small as compared with that of the corresponding period in previous years, the hillmen being then in a state of doubt and uncertainty as to the consequence of the expedition of 1888-89; but through the exertions of Mr. Murray, the Assistant Political Officer at Lungleh, for which he deserves credit, that feeling gave way to one of security long before the commencement of the second expedition.

4. Besides the permanent posts at Demagri, Burkal, Ruma, and the newly-established one at Lungleh, three temporary posts at Pyramid Hill, Joormorong and Keokradong were occupied during the year. The frontier force performed their very arduous duties in connection with the expedition cheerfully and well. General Tregear, who commanded the Chittagong column of the expedition, was fully satisfied with their work, and recorded the following remarks in the report submitted by him:—
"During the last expedition I was able to make very favourable mention of the men composing the Chittagong Frontier Police Battalion under the

command of Mr. C. S. Murray, District Superintendent of Police. During this expedition 50 men accompanied the Northern column, and 100 under Mr. S. V. Tayler, Assistant Superintendent of Police, were employed with the advanced party and did excellent work. They are the most useful and willing men I should ever care to serve with. Besides being keen soldiers, they can build huts, thatch roofs, construct rafts, and, in fact, put their hands to anything, and are accustomed to carry all their own kits." It is, however, to be regretted that the severe and fatiguing duties and exposure to which they were subjected increased the number of casualties from 16 to 51 under the heads of discharge, retirement, and resignation. A considerable number of men appear to have resigned in consequence of an order prohibiting the grant of leave except on medical certificate, but this restriction has since been withdrawn and leave is now freely granted. The question of the reorganization of the frontier force is now under consideration. The expenditure incurred in provisioning the force amounted to Rs. 52,614, against Rs. 33,051 in the previous year. The increase is due to the fact that the men garrisoning distant outposts were not, as usual, brought in to Rangamati during the rainy season of the past year.

5. The coolie corps, mainly composed of recruits from the Sonthal Pergunnahs, was of great service during the expedition. The men were first employed in improving a portion of the road from Rangamati to Peskisurra, but the work had to be stopped before much progress had been made, as they were required to work on the Burkal tramway in consequence of the desertion of the

local coolies owing to an outbreak of cholera.

6. The Commissioner's remarks on the character of officers will be noted in

the Appointment Department.

Ordered that a copy of the Resolution be forwarded to the Commissioner of Chittagong for information and for communication to the Deputy Commissioner of the Chittagong Hill Tracts.

Ordered also that a copy of the Resolution and a copy of the Report be

submitted to the Government of India in the Foreign Department.

Ordered also that the Resolution be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

CLEAN TO A RESIDENCE OF A STREET OF STREET

RESOLUTION ON THE ADMINISTRATION REPORT OF THE TRIBU-TARY AND POLITICAL STATES OF THE CHOTA NAGPUR DIVISION FOR THE YEAR 1889-90.

POLITICAL.

Dated Calcutta, the 1st October 1890.

READ-

The Report on the Administration of the Tributary and Political States of the Chota Nagpur Division for the year 1889-90.

Read also-

The Reports for 1887-88 and 1888-89 and the Resolutions recorded thereon.

The present report is submitted by Mr. W. H. Grimley, who was in charge of the Chota Nagpur Division throughout the year, except from the 1st to the 27th April 1889. The Commissioner's tour in the Tributary States was unavoidably of short duration. It being the first year of his office, the district headquarters claimed prior attention, and at the same time the Kol agitation prevented his moving far from head-quarters. But although the Commissioner was only able to visit the States of Udaipur, Sirguja and Jashpur during the year under review, he had an opportunity of seeing the Chief of Bonai in Ranchi in May and June, and the Raja of Seraikela and the Thakur of Khursawan were met both at Chyebassa and Ranchi; while during the course of the tour Mr. Grimley was able to inspect the scene of some recent troubles with the Kurwas and to give some valuable advice for the future prevention of raids on civilised

2. The rainfall was sufficient and the crops generally good, but the influx of workmen employed in the Bengal-Nagpur Railway caused an unusual demand for all articles of food, and prices ruled high in consequence.

3. The general health of the people was good in all the States, except Sirguja and Gangpur. Small-pox carried off 1,144 persons in Sirguja, and cholera was fatal in 101 cases in Gangpur and 85 cases in Sirguja. There was a slight falling off in the number of vaccinations, and some of the Chiefs still repeated in the past year the old established objections to this operation, but their prejudices are said to have been overcome, and vaccinators will probably be less hindered in their work in future. The statistics of cattle disease are not very trustworthy, but the report of its general prevalence is undoubtedly true. With a view to diminish the mortality, instructions have been issued by the Maharaja for the segregation of the stricken animals, and by the Commissioner for the prompt burial of cattle that die of the disease and for the destruction of their hides. It is hoped that the measures proposed to be taken during the ensuing grazing season will have the desired effect.

4. The Lieutenant-Governor regrets to observe that education, which has always been backward, has further retrograded during the year under review. Although six additional schools were established, the number of pupils in the majority of the States was smaller than in the previous year. The total number in all the States was 1,219 against 1,329 in 1888-89. His Honour would be glad to see other Chiefs following the excellent example of the Raja of Udaipur in this respect. It is not clear why the schools in Khursawan and Seraikela

should receive assistance from the primary school grant of a British district.

5. No new roads were constructed during the year, but the existing lines of communication were kept in repair. The territories of many Chiefs are now being rapidly brought into communication with other parts of India by the construction of the Bengal-Nagpur Railway, and the efforts that are being made to open out the mineral wealth of the country will soon make the question of road construction one of paramount importance. Sir Steuart Bayley hopes that the Commissioner will lose no opportunity of impressing on the Chiefs the importance of improving existing means of communication within their States, and will endeavour to obtain for them any assistance which they may require in the selection of suitable lines of road.

6. There is but little to remark in the figures of Sessions trials, and most of the important cases have come before the Lieutenant-Governor either for confirmation of the sentences passed or in appeal. The fines imposed rose from Rs. 2,874 to Rs. 3,043, and Rs. 2,522 were realized against Rs. 2,161 the year before. Any tendency to impose fines as a source of revenue rather than as punishments must be watched and checked. The number of escapes from custody is very large, and His Honour hopes that the Commissioner will continue his enquiries into the cause of them, and take such measures as he may find practicable for minimising the chance of their recurrence in the future. The mortality in the Sirguja Jail was heavy and calls for some explanation.

7. The statistics of crime are given in the appendices to the report, which show also the averages of the preceding five years. The number of offences against the person increased in Gangpur and Khursawan, and there was a larger number of theft cases in the former State and in Changbhakar than in 1888-89.

House-breaking cases rose from 6 to 14 in Udaipur.

8. In paragraphs 34 to 40 an account is given of the principal matters which engaged the Commissioner's attention in connection with the Native States during the year under review. Most of these have been the subject of special reports to Government in the course of the year, and have been already reviewed by the Lieutenant-Governor; but His Honour would be glad to hear further on the subject of the establishment of a mission station at Ghoghor in Gangpur where the Raja is said to have stopped the building of the station, although he had himself given land as a site for it. The Lieutenant-Governor is glad to record his high appreciation of the prudence and tact displayed by Mr. Grimley in bringing to a satisfactory termination the long-standing and complicated disputes between the Raja of Bonai and the Gond Chiefs, and in dealing with the Gohandals of Khursawan. Great credit is also due to Mr. Grimley for the measures taken by him to quell the disturbance made by the Jashpur Kurwas.

9. The State of Khursawan, which has been successfully managed by Government during the minority of the Thakur, has now passed into the hands of its Chief, and Sir Steuart Bayley has much reason to hope that this young

ruler will prove a successful and prudent administrator.

10. Sir Steuart Bayley has read with pleasure the Commissioner's favourable comments on the Chiefs, the majority of whom have maintained their reputation as judicious and wise rulers, and all of whom have generally followed the advice given to them by the Commissioner on difficult questions. Special credit is due to the Maharaja of Sirguja and his Dewan, Maulvi Jaffir Ali Khan, and to the Rajas of Udaipur and Jashpur.

Ordered that a copy of the Resolution be forwarded to the Commissioner of Chota Nagpur for information and guidance, and that a copy of the Resolution, together with a copy of the Report, be submitted to the Government of India, in the Foreign Department, for information.

Ordered also that the Resolution be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 4th October, 1890.

,	No.	District and return		of		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEI	IGA	L. Western D	istri	rta.		100	
,	1	Burdwan	52N		'90	3:05	Weather-rainy and seasonable. Prospects of crops good. Prices of common
		Culna				3·70 7:09	rice :— Srs.
		Ranigunge				2.12	Burdwan 16
		Personal by			23		Culva 16 per rupee 16 per rupee.
	2	Bankoora	.,	4,	'90	1.27	Raniguage 16) Weather—warm and bright. Rains ceased since 30th ultimo. Prospects of crops continue good. Common rice selling at 19 seers per rupee at Sudder
		annay garage (****	0.50	and 17 seers at Bishenpore.
×	3	Birbhum Rampore Ha	ut "	4,	'90	2·58 7·19	Good rain. Rice crop is in quite perfect order, and may now be looked upon as safe. A 20-anna crop may be confidently expected. Prices of rice still
BURDWAN DIVE.	4	Midnapur		4.	'90	1.52	keep high, being from 161 to 18 seers per rapes. Weather—bright but cloudy at times. Recent heavy rain has considerably improved prospects of standing crops throughout the district. Prices of common rice:—
URD		As a street	144			(Se.39.71)	Sudder 15)
B			No.		41	und on	Ghetal 17 per rupee.
100							Contai 19)
	5	Hooghly Serampore Jehanabad	"	9,	'90	7:44 7:85 1:09	Weather-alternately fair and stormy. Aus and jute nearly harvested with average outturn. Prospects of winter rice and sugarcane excellent. Prices of common rice:—
		Digital Relies				1 10	Srs. Ch. Sudder 13 0)
							Serampore 13 0 per rupec.
		Howrab	**	4,	'90		Weather-seasonable. Standing crops benefited by heavy rain. Prospects of
		Uluberiah	UTE.		•••	7:52	amun crop satisfactory. Price of coarse rice about 14 seems per rupee.
1		Central Del	Oct		*00	3.81	Weather-seasonable. Prospects of amun continue excellent except in the
	6		Oi.	*			small flooded tract of the Bussirhat subdivision. Lands are being prepared for rubbi crops. Prices stationary. Relief in the form of rice, dal, &c., that was being issued to the destitute sufferers at the late floods has been would up; but medical relief is being given and advances are being made for the construction of huts.
DIVE.	7	Nuddea Kushtea	,,,	4,	'90	5.35 4.75	Weather—seasonable. Heavy rain fell during the early part of the week. Kalai sown on chur lands has been submerged by a fresh rise of the rivers
		Meherpore Chuadanga	\$18.			4·65 5·80	and heavy rain. No change in the price of rice. Agricultural loans and charitable relieffare being given.
DENCE		Ranaghat Khoolna		4	'90	5:30	Weather-bright and warm. Transplantation of amun nearly completed.
PRESID	8	Bagirhat Satkhira				0.90 3.14	Prospects in the flooded thanas bad, but elsewhere good.
7	9	Jessore		4	'90	1.83	Weather-hot and cloudy with occasional showers. Sowing of cold-weather
	4	Jhenidah				3.25	crops commenced, except in flooded tracts. Jute steeping in progress.
		Magura Narail				0.81	Average price of rice 13 seers per rupee. Charitable relief being given in Bongong and Jhenidah.
	10	Bongong Moorshedabad	.0	4,	90	3·40 4·83	Bright sunshine prevailing. Amus paddy promises excellently. Rivers still
							very high. Some kalai submerged. Rubbi cultivation going on. Agricultural loans and gratuitous relief being given.
1	11	Dinagepur Thakurgaon	,,	4,	'90	6.86 9.25	Weather—seasonable. Prospects continue favourable. Price of rice stationary. Sugarcane promises well.
	12	Rajshahye		4,	'90	6.81	Weather-rainy, but rather clear to-day (4th), Floods subsiding. Prospects of
		Nattore Nowgong			***	13·16 10·8	winter paddy good. Jute is still being gathered. Some kalai sown too early washed off by recent sudden rise of the river, which is however falling.
	13	Rungpur Nilphamari		4,	'90	14:43	Weather—bright sunshine alternating with heavy showers. Immense mischief has been done by a storm accompanied with an unprecedented fall of rain
	NIO.	Kurigram				6.74	on the 28th and 29th ultimo. The young anun paddy has suffered
1	A FILL	POLICE DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA C			2.1		severely from inundation, as also the jute stocked for steeping. Numbers of houses have been blown down, and men and cattle have been killed.
DIV	14	Bogra Sherpur	612	4,	'90	13·31 9·50	Weather—stormy on 27th and 28th ultimo; since then fine, still and sultry. Excessive rainfall from 27th to 29th ultimo (13 01 inches) caused a nigh
RAJSHAHYB DIVE		Nowkhilla				6.36	flood, which has destroyed some and damaged more of the amus rice. A considerable area of grazing ground has also been under water, but the flood is falling. Some jute also has been washed away, but most of the coop had already been housed. In many places the amus was not submerged, or was submerged for a very short time, and is in excellect condition. Sugarcane promises very well. Prices have scarcely risen, and common rice is
	15	Pubna	.,	4,	'90	3.71	Weather-cool. Prospects of crops continue as before. Rubbi sowings going
	16	Darjeeling		4,	90	9.06	on. Prices a little higher than before. Weather—rainy during the first part of the week and fair during the latter part. Bhutta, and bhadoi paddy are being harvested. Bara marua and haimanti
1	17	Julpigoree	*	4.	'90	5:94	paddy progressing favourably. Prospects good. Weather—generally cloudy and rainy. Harvesting of jute going on. Haimanti paddy progressing favourably. Prices stationary.

	No.	District and return		of		Rainfall at Sudder Station in inches.	
00	NGA	L-concluded.		100			
n E	NUA	Eastern Di	etric			-1	
	18	Dacca		t. 4,	*90	0.14	Weather—hot and bright. Harvesting of jute nearly completed. Amue paddy doing well. Shail and rouchia paddy thriving. Fodder available Common rice sold at from 12 to 15 seers per rupee.
DACCA DIVN.	19	Furreedpur	,,	4,	'90	1.45	Weather—seasonable. State of all standing crops good. Rivers rapidly subsiding. Common rice selling at 13 seers per rupee.
7	1						
JAC	100				4	0.40	
	20	Backergunge	"	4,	'90	0.42	Weather—hot. State and prospects of standing crops good. Outturn of as crop 15 annas. Common rice selling at about 13 seers per rupee.
	21	Mymensingh		4,	'90		Weather—days hot and sometimes cloudy with high wind, and nights cool. violent whirlwind in the form of a tornado passed this station on the 28t ultime. State and prospects of crops on the whole good. Jute and ama paddy have been somewhat injured by the high flood. Harvesting of jute continues. Common rice sells at 13 seers per rupee.
V.W.	22	Chittagong	,,,	7,	'90	0.10	Amun transplanted. More rain is wanted for this crop. Aus nearly cut wit average outturn. Prices steady.
CHILTAGONG DIVIN	23	Noakholly	,,	4,	'90	1250	Weather—very hot. Transplantation of amun completed; prospects fair. Amun plants in the islands are being damaged to a small extent by insects callebroma jana and katmandar. Price of rice stationary.
HILLA	24	Tipperab		4,	*90	0:27	Weather—scasonable. Amun promises well. Jute cutting continues. Pricof rice has risen at Chandpur.
3	25	Chittagong Hill Tracts.	,,	2,	'90	0.57	Weather—hot and dry throughout the week. Harvesting of jum paddy continues. Cotton plants in flower. Paddy plants in low lands progressing Common rice is being sold at 12 seers 15 chittacks per rupee.
		Hill Tipperah	33	3,	'90	. 0.45	Weather—hot. Harvesting of jute nearly over. Amun and jum crops dois well. Prices stationary.
SE	HAR.	Patna Barh Behar	**	4,	'90 	5·10 4·62	Weather—hot. Harvesting of bhadoi crops over. Paddy doing well, and the late rain has much benefited it. Rahar and jowar look well. Prices food-grains advancing.
	27	Dinapore Gya	,,	4,	90	3·63 5·25	Weather—clear. Paddy and sugarcane doing well. Fields being ploughed fubbi. Prospects very favourable, and prices of food-grains falling.
	28	Shahabad Buxar Bhabuah		4,	'90 	3.73	Weather—days hot and nights comparatively cool. Sky now and then spotte with clouds. Owing to recent rain prospect of paddy very cheering Sugarcane fair. Prices stationary.
LAISA DIVA.	29	Sasseram Durbhunga Madhubani Somastipur		4,	'90 	4·07 4·40 2·66 6·29	Weather—early part of the week cloudy and rainy. The rainfall of the week has done immense good to the winter rice crop. It has also facilitated the ploughing for rubbi sowings. Transplantation of tobacco and alua going
	30	Mozufferpur Hajipur Sitamarhi	"	4.	'90 	4·62 4·15 4·24	on. Prices remain almost stationary. The rainy season appears to have closed, and dry weather, with increasing cooness, has set in. The recent rainfall has been abundant and most benefici to the crops. Bhadoi ou turn is now returned at 8 annas from most part
	31	Sarun		4,	'90	4.40	Prospects of rice crop excellent. Very heavy rain with wind at the beginning of the week, since then weath fine and seasonable. The heavy hathia rainfall has done much good. Ricerop promising, and prospects of rubbi excellent. Preparation for rub
	32	Chumparun Bettiah		4,	'90 	5·12 2·66	weather—days very hot. Bhadoi crops all cut; some are still being threshed Frospects of winter rice very good, and with the rain of the week the should be a 16-anna crop.
	33	Mongbyr Beguserai	,,	4.	90	3·27 3·82	Weather—seasonable. Standing crops doing well. Rubbi sowing going on.
	34	Jamui Bhaguipore Banka Mudhepura	**	4,	90	2·54 3·06 2·45 6·17	Weather—clear now with hot sun. Rain has fallen very favourably for the winter rice and rubbi sowings.
	35	Soopool Purnesh Kishengunge Arrareah		4,	'90 	5·50 4·88 7·70 5·31	Weather—fine with passing storms. Heavy rain at the end of last week d good to winter rice. Prospects generally good. Rubbi sowings are commencing. Many cattle died from exposure to the storm of 27th September.
	36	Maldah Chanchal Shibgunge Gajole	ы	4,	'90 	9·76 7·65 5·55 14·91	Heavy rain with high wind on 27th and 28th ultimo. Weather now bright at hot. Amus paddy thriving well. Kalai sowings going on. Preparation of lands for rubbi crops in progress. State of mulberry plants good Common rice selling at from 12th to 18 seers per rupee.
	37	Sonthal Perghs. Deoghur Godda Jamtara Pakour Rajmehal		4.	'90 	2·08 3·53 2·48 1·85 5·38 7·64	Weather—very seasonable. Prospects of paddy and other cold-weather croare excellent. Outturn of makai in Pakour is estimated at 4 annas only.

1	No.	District and de return.	te of	Rainfall st Sudder Station in inches.	Character of the weather and state and prospects of the crops.
RI	SSA				
1	38	Cuttack Q	ct. 4, '90	0.13	Weather—seasonable. Sowing of rubbi has commenced. Prospects generall good.
1	39	Pooree Knoorda Banpur	" 2 , '90	1·10 2·19 5·05	Weather—seasonable. Weeding of sarad crop going on and in some place almost over, Beali and mandia are being harvested. Miscellaneous crop doing well. Common rice selling at from 18 to 26 seers per rupee.
H	40)TA	Balasore NAGPORE.	,, 4, '90	2.53	Weather—generally fine. In places the lately transplanted rice crop was injure by last week's floods, but generally much benefit was caused by the heav rainfall.
	Sout	h-West Frontier A	gency.	7 5 5 5	
-	41	Hazaribagh C	ct. 4, '90	2.05	Weather—seasonable. Prospects of winter rice excellent. Sugarcane also doing well. Bhadoi crops are still being harvested with very poor outturn generally.
	42	Loharduggs Palamow (up to 29	,, 4, '90 th Sept.)	1·33 1·72	Weather—hot and cloudy. Rainfall during the week has much benefited the winter rice crop, the prospect of which is favourable. Harvesting of gord rice continues. Prices steady.
	43	Singbhoom O	ct. 4, '90	2.18	Weather—seasonable; a cold weather feel in the air. Everything progressing satisfactorily. Yield of gora paddy will average about 10 or 11 annae Price of rice varies from 15 seers per rupee at Ghatsilla to 24 seers per rupee at Asonboni.
1	44	Manbhoom Govindpore	,, 4 , '90	0.77 1.65	Weather—very favourable. Crops are in excellent conditionall over the district and with a little more rain, the outturn will probably be the best obtained for years. Rice selling at 18 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT., The 7th October, 1890. C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

12	20	19	18		17	16	15	14	18	12	=	10		00	7	0						500	10	-		Number.	
Mymensingh	Backergunge	Furreedpore	Dacca	Eastern Districts.	Julpigoree*	Darjeeling	Pubns	Bogra	Rungpore	Rajshahye	Dinagepore	Moorshedabad	Jessore	Khoolna	Nuddea	24-Pergunnabs	Calcutta	Central Districts	Howrah	Hooghly	Midnapore	Beerbhoom	Bankoora	Bardwan	SENGAL.	DISTRICTS.	
10 0		16	12			9	18	15	18	16	15	16	18 4	1	16	и	13 4			13 0	п 0	17 4	15 0	14 0	s. Op	Present return.	
10 0		0 15 0	0 12 0		18 0	0 8 0	0 18 0	0 15 0	5 18 5	8 17 4	9 15 0	0 16 0	13 4	1	4 15 4	8 14 8	13 8			18 0	11 0	17 0	15.0	14 10	s. G	Next preceding return.	Wнеат.
10 0	1	15 0	18 0		11 0	10 0	16 8	12 0	12 4	15 0	16 0	16 0	12 0		14	14	12 14			18 0	18 6	15 0	14 0	12 0	s. Ch	Corresponding return of last year.	
1	o E	20 0	0 13 0		_	0 01	,	1/		24 0	0 81 0		:	i	0 20 0	0 18 12	17 12		7		1	1	20 0	N.	s. cr.	Present return.	В
-1	ı	20 0	18 9		16 0	10 0		i		24 0	18 0				20 0	18 12	17 8		1		1	1	20 0		. G	Next preceding return.	Barley.
1	Ψ.,	16 0	26 u		16 0	9 0		1	1	16 8					20 0	17 0	17 4		1	1	1		17 0 1	1	Ch. S	Corresponding return of last year.	
10 0	0 11	10 01	13 0		7	0	12	12 0	9 6	12 0	12 18	10 0	0 11	12 12	12 4	8 0	8 14		10 0	8	11 0 1	13 8 1	15 0 1	12 0 1	Ch. S.	Present return.	Rice,
10 8	11 8	10 0	18 0		8 0	0	7 2	12 0	9	12 0	12 0	10 0	0 11	12 0	12 0	8 0	8 14		10 0	8	18 0	8	15 0	12 6	P	Next preceding return.	BEST
0 6	10 0	8 0	8 12		8 0	6 0	7 2	9 12	8 0	9 12	11 4	10 0	9	10 0	10 51	7 0	8		9 0	8 0	12 8	12 0	14-12	11 4	S. OF	Corresponding return of last year,	SORT.
12 12	12 8	18 0	14 0			12 v	15 0	15 0	18 5	13 14	15 9	16 6	14 8	13 8	11 8	14 0	12 12		13 8	13 0	15 0	16 8	18 0	15 15	S. Ob.	Present return.	Rice,
13 4	12 8	14 0	14 0		13 0	0 11	16 2	14 4	18 5	14 4	8 21	15 0	14 4	18 0	14 8	15 0	12 12		13 4	18 0	16 4	16 8	18 0	16 5	\$. Ch.	Next preceding return.	
10 0	10 8	11 0	10 0		13 0	10 0	12 0	12 0	0 01	12 0	13 0	14 0	12 0	18 0	12 5	13 4	12 12		12 8	12 0	14 0	15 0	17 8	18 14	8. (3).	Corresponding return of last year.	P
1			1					1	1	1	1	1		1	1	i					1.	ı		1	ç.	Present return.	Jowan on Chol. (Sorghum Vulga
1	13	1	1			1		1/1	k	1	-	1	i	i.		1	16 0 16		1	1	1	1	1		4.01.7	Next preceding return.	on Cholus
-		1	1		1	1	•		1	1	1	1	1	Siz.	114		60		Ur t	1	1	1		1	P	Corresponding return of last year.	Jare)

In subdivisions retail prices of salt per rupee are:—Cultan 10 seers, cutwa 10 seers 6 chittacks, and Kanseegunge 10 seers. At Rampore Haut rotall prices of salt 8 seers per rupee.

In subdivisions retail prices of salt per rupee are:—Contai 9 seers, Tumlook 8 seers, and Ghatal 11 seers.

In subdivisions retail prices of salt per rupee are:—Scrumpore 10) seers and Jehannhad 11 seers.

In subdivisions retail prices of salt per rupee are:—Scrumpore 10) seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Harrackpore 9 seers 2 chittacks, and Dunc-Dun 10 seers.

In subdivisions retail prices of salt per rupee are:—Kosahten 10 seers, Meherpore 10 seers, Choondanga 94 seers, and Ramachet 9 seers 2 chittacks.

In subdivisions retail prices of salt per rupee are:—Satkhira 10 seers and Bagirhat 8 seers, Narall 93 seers, and Bongoog 10 seers.

In subdivisions retail prices of salt per rupee are:—Jabunda 9 seers, Magura 10 seers, Narall 93 seers, and Bongoog 10 seers.

20		1		1000		1		1	- 1	3	1	f		-	1	1	- 1
2040		1	1	1	1		1	. 1	1	1	1,5		ŧ	1		ı	10 10
İ	1		1	Ť.	F	1		1		1	1	1	1			1	11 8
	1	1	1	•		15 0		1	1	1	1	1	1		1	1	
				7	1	16 0	1	4		i		1	i		li.		
				-		14 0		1	1		ı	i	i	1	1	1	i

1		1		S, Ch	Present return.
1			ı	s, ch	Next preceding return.
			11	8. 0).	Corresponding return of last year.
		1	1	8. Oh	Present return.
	1	1	1	s. Op	Next preceding return.
:	i	71.	i	S C	Corresponding return of last year.
	1 1				Ch. S. Ch

SEERS OF 80 TOLAHS.

365				FEL	13.50						1	74		1		-1	00
					•		1	100	4	100						0	4
			BATH'S		7			(18)				10	N.	. 1	818	~1	o
							1	1	•	1		1	1	1.	d	0	*
047	41.33				1373		N. V.	alicinie.			37	1				22	10
										Far		•		16		0	-
15	15	16	13			H	18	17	12	221	18	125	16	150	12	20	:
0	00	0	0			0	12	4		0	200	00	0	0	57	0	
15	16	16	ti		16	12	18	18	12	13	21	228	16	16	220	20	
0	0	0	0		0	0	12	12	4		0	00	0	0	12	0	
13	E Co	16	13		12	10	16	120	53	00	16	17	5	13	16	17	
0	00	0	0		0	0	12	00	E della	0	0	12	0	0	=	0	

		7.5	1100			ÇD.
		1	: *			S. Ch. S. Ch. S. Ch. S. Ch. S. Ch. S. Ch.
	-10		1.	1		30
	-	1	1			G
		Gu V	70			ĝ0
1		-1	1		1	9
18	16	17	18	16	19	200
12	16 0	17 0	12	16 0	0	9
18	16	17	18	16	18	00
18 12 18 12 16 8	16 0 16 0	17 0 15 0	18 12 18 12 16 8	16 0	18 12 17	Oh.
16	16	15	16	14 0	17	00
00		0	00	0 0	0	9
				STAND	an letterin	

Present return.	KANGI ITAI (Sete
Next preceding return.	NI OR E
Corresponding re- turn of last year.	KAKUN, LLET. lioa.)
Present return.	Сино он (Счет
Next preceding re- turn,	M, CH LA, KA SUNA ariet
Corresponding re- turn of last year.	ANA. DALAI GA.

Head-quarter Station Bazars of the Districts of Bengal on the 30th September, 1890.

		1																'	PE	OL R 1	ESA IAU SEE	N	0 0	F 4	0	
	MAIZI		100	C	ADJ/	N	PEA			FIRE	VOOD.			Sa	LT.					1	SAL	т.				
Present return.	Next preceding return.	Corresponding return of last year.		Present return.	Next preceding	return,	Corresponding return	of last year.	Present return.	Next preceding	Corresponding return		Present return.	Next preceding	return.	Corresponding return	of last year.		Present return.		Next preceding	return.		Corresponding return	or last year.	DISTRICTS.
													10	10 m												BENGAL. Western Districts.
S, Ch.	S. Ch.	S. Oh.	8.	Cb.	8.	Ch	N.	Ch.	N. C	h.,8. (2h S	Ch.	S. Co.	S	Ch	8	Ch.	Ke		Р.	Ka.	٠	-	£n. 1		
			24	0	20	0	18	0	100	0 100	0 10	0 0	11 2	11	2	10	5	3	8	0	3	8	0	3 11	1 (Burdwan.
27 0	27 0	24 0	18	0	18	0	14	8	240	0 240	0 28) 0	10 4	10	4	10	0	3	15	0	3 1	5	0	3 15	. 0	Bankoora.
			13	8	13	8	10	8	160	0 160	0 160	0 0	10 8	10	8	10	8	3	10	0	3 1	0	0	3 10	0	Beerbhoom,
1			12	0	12	0	12	4	120	0 120	0 160	0 0	10 8	10	8	10	6	3	13	0	3 1	3	0	3 13	6	Midnapore.
			11	0	11	0	13	0	120	0 120	0 120	0 0	9 0	9	0	9	0	3	12	0	8 1	2	0 :	3 11	6	Hooghly.
1	12.0		12	8	12	8	12	8	100	0 100	100	0	10 8	10	8	10	8	3	8	0	3	8	6 :	10	0	Howrah.
										01.00				•												Central Districts.
19 1	18 10	16 0	15		5		7		92				10 8 E				8	3	8	8	3	8 1				Calcutta.
			17	0	17	0	18	0	100	0 10 ,	0 100	, ,	10 12 F	10	12	10	0	3	6	0	3 4	5	6 8	10	0	24-Pergunnahs.
-	144		16	13	16	13	17	12		10			9 13 G	9	13	9	2	3	12	6	3 15	2	0 8	14	0	Nuddea.
	1				7,7		100		16	. 160	160	0	8 0 - H	8	0	9	0	4	0	0	4 ()	0 4	0	0	Khoolna.
		-	16	0	16	0	16	0	160	0 16 .	160	0	9 0	8	0	9	2	4	0	0	4 4	1	0 4	0	0	Jessore.
			18		17		100		200		0 200	88		11		11	4	3	8	0	3 1	8	0 8	8	0	Moorshedabad.
				31	10/6/	Gil	16	100	-	No.	51	752	10 0	100	0	9	8	4	0	0	4	0	0 4	0	0	Dinagepore.
	-	-	18	10	18	10	16	2	240	0 24	0 240	t	9 9	9	9	9	9	4	0	0	4	0	0 4	0	0	Rajshahye.
			0	1	10	10	10	10	100	6 100	0 100	0	9 6	9	6	9	6	4	4	0	4	4	0 4	4	0	Rungpore.
	1	-	100						90	0 90	0 80	0	9 12	9	6	9	0	8	13	4	4	1	4 4	0	0	Bogra.
			18	0	1000		1885	53	10000	0.00	SECT		M k 8-11-2	8-	11-2	9	12	3	14	0	3 1	5	0 4	0	0	Pubpa.
20 0	18 0	20 0	10	0	8	0	8	0	120	0 120	0 120	0	7 8	7	0	8	0	5	4	0	5	8	0 1	0	0	Darjeeling.
					11	0	12	0		203	0 128	3 0		9	0	9	0				4	1	0 4	0	0	Julpigoree.
																										Eastern Districts.
			12	0	12	o	14	0	120	0,120	0 16	0 0	9 8	9	8	10	0	4	2	0	4	2	01:	15	C	Dacca,
17 0	16 0	\$55,000 S.000	10000				2000		1000		2011		100 miles (100 miles)	1000		1000	996,794		icon	COM			0.00			Furreedpore.
	1,000		12	thes 8	ari, 12	hu 8	ike.	8	100	0 100	0 120)	11 O	11	0	10	0	3	10	0	3 1	0	0	3 14	0	Backergunge.
		•	10	0			13	0					Q 9 12	9	8	9	14	4	0	0	4 :	2	0	1 2	0	Mymensingh.
				7	914		10					766				-		310	100	1		SEE RES	1	1111		

I In subdivisions retail prices of salt per rupee are: Lalbugh 9 seers, Jungipore 10 seers, and Kandi 11 scars.

J. At Thatuganor retail price of salt 5 scars per rupee.

K. In an divisions retail price of salt per rupee are: Nattore 9 seers and Nowgong 9 seers 9 chittacks.

L. At Gaibanda and Kungram retail price of salt 5 seers per rupee.

M. At Sala uni retail price of salt 10½ seers per rupee.

N. At Sala uni retail price of salt 8 seers per rupee.

O. In subdivisions retail prices of salt per rupee are: Manick rungs 9 seers, Moonsheegunge 8 seers 14 chittacks, and Naraingunge 1 seers.

P. In subdivisions retail prices of salt per rupee are: Patunkhali 8 seers, Perozepore 9 seers, and Bhola 8 seers.

Q. In subdivisions retail prices of salt per rupee are: Kishoregunge 3 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 6 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

									178	18	*							118					Q	UA	NTI	TI	ES P	EB	RUP	EE IN
		-		,	WHEA	T.				B	ARLI	EY.			R	ICE	BE	ST E	ORT			Ric	CE,	con	emo.	N.			R OR C	
Number.	DISTRICTS.		Present return.		Next preceding	TOPAGE	Corresponding return		Present return.	State of the state	Next preceding	return.	Corresponding return	of last year.		Present return.	Navt nescading	Ė	Corresponding return	of last year.		Present return.	Mart proceding	m.	Oceanonding softwar	of last year.	Present return	LIGROUP TOTALIN.	Next preceding return.	Corresponding return
East	tern Dietricts	cor		ed. Un.	8.	Ch.	s.	Ch.	9. (h.	s. (Zh.	8.	Ch.	s.	Ch.	١٩.	ОЬ	s.	Ch	8.	Ch.	8.	Ch	s.	Ch	8.	Ci.	8. Ch	. S. C.
22	Chittagong*				11	0	10	0									11	0	8	0			15	0	13	0				
23	Noakholly								1				1		13	0	11	0	10	8	14	0	12	0	12	0				-
24	Tipperah		11	7	11	7	12	0					١.	0	8	14	8	14	10	0	12	101	12	10	12	0			-	-
25	Chittagong Hi Tracts. Hill Tipperah	11	6	0	6			. 0	1						11	6	11 8	0	9 8		12		12 14	0	10	0	1		-	-
26	BEHAR. Patna		{17	4	16 W	ite.	1 17	. (18	0	20	0	20	0	10	0	10	0	11	0	16	12	15	4	15	0	19	8	19 0	19 0
27	Gya .		14	12	15	12	16		19	0	18	8	20	0	9	0	11	0	9	8	14	4	14	0	14	0				+
28	Shahabad		16	0	15	0	14	0	19	0	20	6	17	0	8	0	8	0	9	0	15	8	14	12	12	0	20	0	20 0	20 0
29	Durbhunga .		15	6	14	8	16	8	15	8	13	0	19	8	12	0	12	0	10	8	16	8	16	8	15	0				
30	Mozufferpore .		19	0	17	0	18	8	20	0	20	0	19	0	9	0	9	0	9	0	14	0	15	u	13	0			-	
31	Sarun .		15	8	16	0	15	8	18	0	17	12	19	0	8	4	8	8	8	4	14	0	3	2	11	8				
32	Chumparun .	-	17	0	17	0	14	0	21	0	19	0	17	0	9	0	10	0	10	0	14	8	15	8	16	0				
38	Monghyr		17	13	16	8	16	11624	25, 141	063	21	23	17	100	11	22399	11 Old		11		CC. Y	11	B 1200		1962		7			
84	Bhagulpore		17	0	17	11	16	11	21 1	11	21	7	16		10						15	2	15	2			}			
35	Purneah		18	0	18	U	16	0							15	0	14	0	9	0	18	0	18	0	12	0			-	-
26	Maldah		19		18		16			ij	104	1	1		13		8					0								1
37	ORISSA.	-	18	U	13	0	13	U	4	7	1				13	U	110	U	12	٥	10	U	10	U	15	ū	."			
38	Cuttack	1	14	7	14	7	13	2							10	8	10	8	10	8	18	61	18	6	15	12	1			-
39	Poores	1	11		11		11								1					S		0		0	18	6				
	CHOTA NAC	⊋P			15	0	14	0	18	0	18	0	13	0	12	0	12	0	13	0	16	0	17	0	16	0			•	۱
	bouth-West Fronts	ier																												
41	Hazaribagh	-	14	0		0 Red	12	0	14	0	14	0			8	0	8	0	8			0	rdi	nar	v.		"		-	"
42	Lohardugga		14	0	14	0	10	0	20	0			10	0	14	8			13	05	200	8	15 Co	4	118 e.				•	-
43	Singbhoom		12 13	3.1	16 13		10 12		16	137	20	96		(8)	12	K300	Mili	icid	17000	w.	100	0			(820)	0			•	-
		1						200				2	Œ						10		.0	0	41	U	20	0				

^{*} Present return not received.

† Common rice at Jajpore 17 seers 1 chittack per rupee and at Kendrapara 20 seers 7 chittacks per rupee.

At Feni Hât retail price of salt 8 seers per rupee.

In subdivisions retail prices of salt per rupee are:—Buxar 10 seers, Sasseram 10½ seers, and Bhabuah 9½ seers.

In subdivisions retail prices of salt per rupee are:—Samastipore 10 seers and Madhubani 10½ seers.

U In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Sitamarhi 10 seers.

V At Bettiah retail price of salt 10 seers per rupee.

Present return.

Next preceding re-

Corresponding return of last year.

Next preceding re-

Corresponding return of last year.

Present return.

9

1 1 1

1 1 1

1 1

4 5 4

1.	1			1	1	:	. 1		1	1.	1	1	1	1
	:	.:/	1	•		-1	1			4				
			44.5					28	12	123	228	315		
								0	0	0	00			
					-		417.50	28	19		27	-	1	15
				Mie.				0	00		00		150	
	1						70.2	28	22	30	26	-		22
								0	0	0				0

1	1	1	•	1	9
	1	1			Oh. S. Oh. S.
		1		+	9
:	1	1	1	1	S. Ch S.
			15		S. Ch

KANGNI OB KAKUN, ITALIAN MILLET. (Setaria italica.)

Station Bazars of the Districts of Bengal on the 30th September, 1890-(concluded).

20 0 30 0 21 0 121 Small 40 0 40 0 24 0 126 30 0 82 0 22 0 21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22. 6 22 10 20 0 36 0	22 0 20 18 0 20 20 0 28 21 0 22	19 0 21	1 1 1 1 9	Next preceding return.	INDIAN-CORN MAIZE, (Zea Maye.
0 000			13 8 8 8	10 10		A CARLO DE LA PROPERTICION DE LA PORTICION DE LA PROPERTICION DELLA PROPERTICION DE LA PROPERTICION DE LA PROPERTICION DE LA PO	A B OR
0 000			0 0 0 0	. 1 1 .	1 1 1 1 9	Corresponding return of last year.	N OR
19 12 19 19 19 19 19 19 19 19 19 19 19 19 19		15 0 15 0 21 0		17 8 17 8 17 8 17 8 17 8 17 8 17 8 17 8	8 Ch.	Present return.	ARH CAI (Caja
0000	1 10 11	15 0		19 8 20 0 19 12	8	Next preceding return.	ARHAR OR 7 CADJAN I (Cajanus in
113 0	15 12	16 0		18 8 18 0 20 9	8 : 8 8 : 9 8 : 0 0 : 9	Corresponding return of last year.	R TAUR. PRA. indicus.)
240 0	80 0	140 0 160 0 200 0		110 0 180 0 120 0	820 °C	Present return.	
240 0	80 0	0130 0 0120 0 0250 0		180 120 20)	S. Ch.	Next preceding return.	FIREWOOD
140 0	80 0	180 0	160	0130 c 0140 0	80 0 320 0	Corresponding return of last year.	OD.
9 0 8	10 0 01 X	9 9 8 8 8 9 0 10 11 11 11 11 11 11 11 11 11 11 11 1		1 1 1	8 9 9 R Ch	Present return.	
9 9 8	9 13	9 9 8	10 0	10 0 9 2 10 0	8 9 9 0 OF	Next preceding return.	SALT.
7 8 8	8 H H	9 0 0	9 12 9 15	9 9 8	8 9 9 10 G	Corresponding return of last year.	
6 2 8	8 14 0 8 14 12 0	3 14 2 7		3 10 0 3 15 0 3 8 0		Present return.	PER
4 4 3 0	0 0 4 0 3 14 0	4 7 4 0 8 14	8 12 8 11 8 11	3 9 6 3 15 0	4 4 4 8 Rs 6 8 8 0 14 F	Next preceding return.	PER MAUND OF 40 SEERS.
South-Wa 0 4 14 0 5 8 0	T OF T	3 13 4 7 8 14	4 0 0 4 0	3 4 3 13 3 14 2	Rastern Ra 4 1 2 3 12 4 4 4 4 8 8 4 6 6	Corresponding return of last year.	OF 40
hasaribagh. Lohardugga. Singbhoom.		8 Bhagulpore. 0 Purneah. 0 Maldah. 0 Sonthal Pergit		O Patna. O Gya. O Shahabad. O Durbhunga.	Districts—concluded r. 0 Chittagong. 0 Noakholly. 0 Tipperah. 0 Tipperah. 0 Chittagong Hill Tracts. 0 Hill Tipperah.	DISTRICTS	

⁹⁴ seers and Jamui 9 seers. uge 8 seers and Arrawah (at Ranigunge) 10 seers.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Sa

					,	WH	HAT	r.							BAR	LEY				1		1	Rici	в, вн	ST	ort						R	ICE,	CON	(MO	N.	CONTRACT.
Number.	MARTS.		Present return.			THE PERSON NAMED IN	Next preceding return.			Corresponding return	of last year.		Present return.			Next preceding return.	Sales Company	O	of last year.	The second secon		Fresent return.			Next preceding return.		Countries discountries	of last year.			Present return,			Next preceding return.		Paternamen State motores	of last year.
		F		P	1	R	۸.	P.	R	۸.	P.	R		P.	B	. A	p.	R.	۸.	P.	R	۸.	P.	R	. A.	P.	R	4.	P.	R	. 4.	P.	R		P.	k,	4
1	Calcutta	:	15	3 1		2	11	0	2	13	3	2	0	1	2	1	3	2	2	6	4	3	7	4	3	7	4	7	9	2	14	0	2	13	9	2	14
2	Serajgunge	5	. 6		,	2	1	0	2	2	0		100								5	0	0	4	12	0	4	8	0	3	0	0	3	0	0	`2	12
3	Dacca		4		,	3	4	0	3	0	0	3	0	0	3	0	0	1	8	0	3	0	0	3	0	0	4	12	0	2	13	0	2	13	0	4	0
4	Naraingunge													*10							3	0	0	3	2	0	100			2	12	0	3	0	0		Shirt and
5	Chittagong*	,			1	3 Re	8	0	3	12	0		***											3	6	0	4	12	0				2	10	0	3	0
6	Patna	\{\begin{aligned} \begin{aligned} 2 \\ 2 \\ 2 \\ \end{aligned} \end{aligned}		0		hit 2	5	6	2 2	5	6	}2	3	0	1	15	0	1	13	6	3	14	0	3	14	0	3	14	0	2	5	6	2	9	6	2	9
7	Balasore	2	8	0	1	2	8	0	2	10	0	3	0	0	3	0	0	3	0	0	3	4	0	3	4	0	8	0	0	2	7	0	2	5	0	2	7
8	Pooree				-				ul.				***									•••								1	14	3	1	14	3	2	5.0
9	Cuttack	9	10			2	10	0	3	0	0	100									8	10	0	3	10	0		10	0	2	2	0	2	2	0	2	5

[·] Present return not received

CALCUTTA, The 7th October, 1890.